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# ROSS BROS. CO.

6239

BRITTLE WAX BEANS

## VEGETABLE, GRASS & FLOWER SEEDS

1921

STRINGLESS GREEN POD BEANS

SCARLET GLOBE  
RADISH

CROSBY'S  
EARLY EGYPTIAN  
BEET

DANVERS HALF LONG CARROT

JOHN BAER  
TOMATO

DE LUE'S GOLDEN GIANT CORN  
EVERYBODY  
KNOWS **ROSS'S** SEED  
GROWS

WORCESTER, MASS.  
U.S.A.





# ROSS BROS. CO.

New England's Greatest Agricultural Department Store. Established in 1845 by John D. Lovell; in 1880 by Wm. H. Earle; in 1888 by Ross Bros.; in 1906 incorporated under the name of Ross Bros. Co.

U. S. Food License  
No. G. 12956

Members of the  
American Seed Trade  
Association

U. S. Fertilizer License  
No. J. 2163

## GENERAL INSTRUCTIONS FOR CUSTOMERS PLEASE READ CAREFULLY

ROSS BROTHERS COMPANY gives no warranty, expressed or implied, as to description, purity, productiveness or any other matter, of any Seeds, Bulbs or Plants it sends out, and it will not be in any way responsible for the crop.

**ORDER EARLY**—We endeavor to fill all orders as soon as received, but during the rush season of April and May, delays are sometimes unavoidable. This, however, can be partly overcome if our patrons will send us their orders early.

**IMPORTANT**—When sending money to cover cost of postage allow for weight of box or packing material. For example, allow for three pounds postage on two pounds of Beans or other seed, as the package when ready for mailing will weigh over two pounds.

**PACKING**—We make no charge for boxes, bags or packing, nor for delivery to Freight Depots or Express Offices in Worcester, Mass. This applies to retail trade only.

All orders are acknowledged as soon as received and notice of shipment will be sent as soon as orders are shipped. After an order has been received and acknowledged by us it must not be cancelled; we may have an order ready for shipment or may have shipped it the day before the cancellation order arrives at our office. This means an expense to us for labor or for freight charges and in some cases the seeds are not returned to us until too late for the seed to be used. Therefore, it will be necessary for us to make a charge of 20 per cent on all cancelled orders.

**FREE DELIVERY**—We deliver postpaid to any Post Office in the United States, Vegetable and Flower Seeds in packets, ounces, quarter pounds and pounds at prices quoted in this catalogue for such quantities. If larger quantities are wanted by Parcel Post postage **MUST BE SENT**. See Parcel Post rates below.

**GRASS AND FIELD SEEDS**—All Grass and Field Seeds, Onion Sets and Potatoes are shipped only at purchaser's expense by express or freight, as ordered. Prices quoted in this catalogue are F. O. B. Worcester. Small quantities of Grass or Field Seeds sent by Parcel Post if postage is added at parcel post rates.

**DO NOT ORDER LARGE, HEAVY LOTS OF SEEDS SENT BY EXPRESS** unless you are certain that you are willing to pay the express charges which, even with the reduction now made on such shipments by the express companies, are much more than freight charges.

But do not order a few pounds of seeds sent by freight which could be sent as cheaply, more safely, and which would reach you much sooner if sent by express.

**NOTICE**—While it is not our custom to substitute we feel that in the event of our being sold out of any variety it would be to the advantage of our patrons to allow us this privilege, for if on receipt of any substitute it is not perfectly satisfactory the same may be returned and money paid will be refunded.

**IF GOODS ARE WANTED BY PARCEL POST, POSTAGE MUST BE ADDED AS PER TABLE BELOW, EXCEPT FOR THOSE QUANTITIES OF SEEDS WE OFFER TO DELIVER FREE**

**REMITTANCES** for small orders may be made in postage stamps, but if stamps are used, care should be taken that they are not moistened by handling. Enclosing in oiled paper is much the safer way to send them.

**FOR LARGE ORDERS**, remittances should be made by Express Money Order, P. O. Money Order, Bank Draft, or Registered Letter, all of which are inexpensive and absolutely safe.

**C. O. D. ORDERS**. Do not ask us to send goods C. O. D. If it is not possible to remit with the order, give your order to the Express Company's Agent; the goods will then be delivered to you without the C. O. D. charges, as by this method they make no charge for collecting and returning the money.

## Parcel Post Rate Table

Weight Lbs.	ZONES							
	Local	1st-2d	3rd	4th	5th	6th	7th	8th
1	\$.05	\$.05	\$.06	\$.07	\$.08	\$.09	\$.11	\$.12
2	.06	.06	.08	.11	.14	.17	.21	.24
3	.06	.07	.10	.15	.20	.25	.31	.36
4	.07	.08	.12	.19	.26	.33	.41	.48
5	.07	.09	.14	.23	.32	.41	.51	.60
6	.08	.10	.16	.27	.38	.49	.61	.72
7	.08	.11	.18	.31	.44	.57	.71	.84
8	.09	.12	.20	.35	.50	.65	.81	.96
9	.09	.13	.22	.39	.56	.73	.91	1.08
10	.10	.14	.24	.43	.62	.81	1.01	1.20
11	.10	.15	.26	.47	.68	.89	1.11	1.32
12	.11	.16	.28	.51	.74	.97	1.21	1.44
13	.11	.17	.30	.55	.80	1.05	1.31	1.56
14	.12	.18	.32	.59	.86	1.13	1.41	1.68
15	.12	.19	.34	.63	.92	1.21	1.51	1.80
16	.13	.20	.36	.67	.98	1.29	1.61	1.92
17	.13	.21	.38	.71	1.04	1.37	1.71	2.04
18	.14	.22	.40	.75	1.10	1.45	1.81	2.16
19	.14	.23	.42	.79	1.16	1.53	1.91	2.28
20	.15	.24	.44	.83	1.22	1.61	2.01	2.40
21	.15	.25	.46	.87	1.28	1.69	2.11	2.52
22	.16	.26	.48	.91	1.34	1.77	2.21	2.64
23	.16	.27	.50	.95	1.40	1.85	2.31	2.76
24	.17	.28	.52	.99	1.46	1.93	2.41	2.88
25	.17	.29	.54	1.03	1.52	2.01	2.51	3.00
26	.18	.30	.56	1.07	1.58	2.09	2.61	3.12
27	.18	.31	.58	1.11	1.64	2.17	2.71	3.24
28	.19	.32	.60	1.15	1.70	2.25	2.81	3.36
29	.19	.33	.62	1.19	1.76	2.33	2.91	3.48
30	.20	.34	.64	1.23	1.82	2.41	3.01	3.60
31	.20	.35	.66	1.27	1.88	2.49	3.11	3.72
32	.21	.36	.68	1.31	1.94	2.57	3.21	3.84
33	.21	.37	.70	1.35	2.00	2.65	3.31	3.96
34	.22	.38	.72	1.39	2.06	2.73	3.41	4.08
35	.22	.39	.74	1.43	2.12	2.81	3.51	4.20
36	.23	.40	.76	1.47	2.18	2.89	3.61	4.32
37	.23	.41	.78	1.51	2.24	2.97	3.71	4.44
38	.24	.42	.80	1.55	2.30	3.05	3.81	4.56
39	.24	.43	.82	1.59	2.36	3.13	3.91	4.68
40	.25	.44	.84	1.63	2.42	3.21	4.01	4.80
41	.25	.45	.86	1.67	2.48	3.29	4.11	4.92
42	.26	.46	.88	1.71	2.54	3.37	4.21	5.04
43	.26	.47	.90	1.75	2.60	3.45	4.31	5.16
44	.27	.48	.92	1.79	2.66	3.53	4.41	5.28
45	.27	.49	.94	1.83	2.72	3.61	4.51	5.40
46	.28	.50	.96	1.87	2.78	3.69	4.61	5.52
47	.28	.51	.98	1.91	2.84	3.77	4.71	5.64
48	.29	.52	1.00	1.95	2.90	3.85	4.81	5.76
49	.29	.53	1.02	1.99	2.96	3.93	4.91	5.88
50	.30	.54	1.04	2.03	3.02	4.01	5.01	6.00

## IMPORTANT

In remitting postage always add it to foot of the Order as a separate item—this will help to avoid mistakes.

Your local Postmaster will inform you what Zone you are in from Worcester, if you are in doubt, and you can add postage accordingly.

51	.30	.55	1.06
52	.31	.56	1.08
53	.31	.57	1.10
54	.32	.58	1.12
55	.32	.59	1.14
56	.33	.60	1.16
57	.33	.61	1.18
58	.34	.62	1.20
59	.34	.63	1.22
60	.35	.64	1.24
61	.35	.65	1.26
62	.36	.66	1.28
63	.36	.67	1.30
64	.37	.68	1.32
65	.37	.69	1.34
66	.38	.70	1.36
67	.38	.71	1.38
68	.39	.72	1.40
69	.39	.73	1.42
70	.40	.74	1.44





The above photograph was taken at the Holy Cross College grounds, Worcester, Mass., six weeks after seeding with our Worcester and Shady Spot lawn seed.

## **The Worcester Lawn Grass Seed**

This is by far the best mixture of grasses offered for the purpose of quickly producing a permanent lawn. It is prepared from our own formula, and is a careful blending of varieties adapted to producing the thick growth and velvety appearance so much sought after. Each variety of grass in its composition is there for a special purpose; some for making strong fibrous roots, which take hold upon the soil and keep the turf in place, others of a creeping nature quickly fill up any bare spots which may be caused by the taller sorts dying down; varieties which are useful for their color value, and also kinds that are able to withstand the beating down of excessive rains.

It is of course next to impossible to make a mixture which will suit every condition, but unless very unusual conditions are to be met this mixture will prove satisfactory. Whether you wish to seed a small plot or a large lawn containing a number of acres we recommend this mixture. It is heavier than most lawn seed weighing about twenty-five pounds per bushel; one pound is sufficient to seed 300 square feet, 120 to 150 pounds should be used per acre.

Price, lb. 40 cts.; 5 lbs. \$1.80; 10 lbs. \$3.40; 100 lbs. \$32.00.

## **The Park Lawn Grass Seed**

This mixture is prepared, as far as price will permit, on the same lines as our Worcester mixture. It is designed chiefly to meet a demand for a mixture somewhat lower in price for sowing various large areas and the less important places about the home, but is entirely adequate for all purposes. It comprises nearly all the varieties which form our Worcester mixture, though necessarily in slightly different proportions, and does not contain any coarse-growing varieties.

Price, lb. 35 cts.; 5 lbs. \$1.60; 10 lbs. \$3.00; 100 lbs. \$28.00.





## The Shady Spot Lawn Grass Seed

PRODUCES IN SHADED PLACES A FINE VELVETY GROWTH

Bare spots seriously affect the otherwise attractive appearance of many lawns, and while for renovating or filling such spots our Worcester or Park Mixtures are entirely sufficient, where such spots are caused by the shade of trees, a renovation can be better accomplished by the use of the **Shady Spot Mixture**. This is composed of varieties which thrive in shade. It includes all known varieties of this class otherwise adapted to the lawn, all of which are of dwarf habit and fine, even growth. To secure a good growth, however, the soil should be properly prepared before sowing seed. Soil that is naturally moist, which has been densely shaded, often becomes sour, which is indicated by a growth of moss and sometimes by bog grass. In such cases, the moss or grass should be removed, the soil thoroughly worked over, and an application of lime be given at the rate of one bushel to each thousand feet. If the soil is dry, and there has been no growth on it for some time, it is usually very hard and it is useless to sow seed without working it deeply and thoroughly pulverizing it. What would be preferable would be to remove some of the soil and add new soil and rotted turf, and thereby furnish humus, which soils on which nothing has grown for some time usually lack. While, if soil is well prepared, the growth will continue for some time, we do not claim the permanency for this that we do for the Worcester when used in the open exposure to the sun, as there are no grasses which, if cut often, will be as permanent in the shade as others in the open. This is especially true if the shade is very dense. We therefore advise yearly attention and applications of a small quantity of seed if growth is thin. Those who have hitherto been unable to secure a growth under trees because they have not used a special mixture, will find this of great value, and will be well repaid for any slight expense and trouble incurred in following our suggestions by the greatly improved appearance of the lawn.

Price, lb. 45 cts., 5 lbs. \$2.00, 10 lbs. \$3.80, 100 lbs. \$36.00.

## Golf Course Mixtures

FOR PUTTING GREENS AND FAIR GREENS

We have made a close study of the grasses used on Golf Courses and Pleasure Grounds, as there is no purpose for which turf is grown that is so exacting. No other grass is required to stand so much trampling and rough usage and it is very necessary that the correct proportions of the proper varieties be used to produce a firm, thick and lasting sod. The mixtures listed below are composed of native and European grasses which have proven of great value for this purpose. They are all of dwarf spreading growth, forming a close smooth surface which improves from year to year if given the proper care.

For Putting Greens, lb. 50 cts., 24 lbs. (1 bu.) \$10.00.

For Fair Greens, lb. 40 cts., 20 lbs. (1 bu.) \$7.50.

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## The Worcester Mixtures of Grass Seeds FOR MEADOWS AND PASTURES— PRODUCTIVE—PERMANENT—PROFITABLE

While on strong retentive soils and for a short duration there are perhaps no grasses superior to timothy or to that and red top combined and perhaps no others which will at first on strong soils give a larger yield, for a continual large production, especially on lighter soils, a combination of several other varieties is undoubtedly superior.

### Mixture for Mowing for Medium Soil

On soil which is of average natural fertility and neither unusually dry nor wet, well enriched before sowing and regularly top-dressed, in short, on soil which will produce good timothy hay, this mixture will produce at first cutting a larger crop and a much heavier aftermath of hay, which, though not like timothy, salable in cities for feeding horses, is, nevertheless superior for feeding to both cattle and horses, because richer in nutriment, and more readily eaten because more tender; that is, if seed is used in sufficient quantity and crop is harvested at proper time. Not only will the product be greater at first, but, if properly treated, the land will continue in productive condition for many years. Forty pounds to the acre. Lb. 40 cts., 10 to 40 lbs. 32 cts. per lb., 40 lbs. or more 30 cts. per lb.

### Mixture for Permanent Mowing for Dry Soil

While dry land is not the ideal soil for a grass crop, much larger crops can be obtained with this mixture than with timothy and red top, because it contains, in large proportions, varieties which thrive on dry soil and of which some succeed on soil where both the former would utterly fail. 40 to 50 pounds to the acre. Lb. 40 cts., 10 to 40 lbs. 32 cts. per lb., 40 lbs. or more 30 cts. per lb.

### Permanent Pasture Mixture for Dry, Hilly Lands

In no situation are timothy and red top so unsuitable for seeding as in a dry, hilly pasture, for both require strong, rather moist land to thrive for any length of time. This mixture is composed of grasses which thrive on light soil, endure long drought and bear, without injury, constant cropping. Lb. 40 cts., 10 to 40 lbs. 32 cts. per lb., 40 lbs. or more 30 cts. per lb.

### Grass Seeds of the Highest Grade

With the exception of when more than one grade of a species is offered the seeds of all grasses are of the grade known in the trade as "fancy." This is the highest grade obtainable and is as nearly pure as the greatest care and most improved machinery can make it. This should be considered when comparing our prices with those of other dealers. All the seeds offered have been tested by expert analysts either in this country or abroad and the purity and growth will be given, if desired, on application.

Prices of all Grass Seeds subject to market changes. Prices include bags or sacks. Unless otherwise noted, 25 lbs. at 100-lb. rate.

**AWNLESS BROME GRASS** (*Bromus inermis*). A hardy and productive grass, thriving on very dry and poor soil, where most other grasses would not grow. Lb. 35 cts., 10 lbs. \$3.00

**CANADA BLUE GRASS** (*Poa compressa*). Thrives on poor, dry soil, and also on hard, clayey ground; withstands extremes of drought or wetness; bears trampling well and remains green till winter. A valuable grass for pastures. Lb. 25 cts., 10 lbs. \$2.00.

**CREeping BENT** (*Agrostis stolonifera*). Of rapid growth, fine texture and spreading habit. Forms a very close and permanent sod. Especially valuable for lawns. Market Price.

**CRESTED DOG'S-TAIL** (*Cynosurus cristatus*). Thrives best on moist, rich soil, but accommodates itself to nearly all soils. Grows well in the shade. Valuable in moderate quantity for permanent pasture and lawns. Lb. 40 cts., 10 lbs. \$3.50.

**ENGLISH, or PERENNIAL RYE GRASS** (*Lolium perenne*). Of rapid growth and productive; produces a strong growth in four or five weeks. Made into hay it is rather hard, but is very nutritious and is much relished by cattle and horses. Lb. 8 cts., 10 lbs. \$1.50.

### Mixture for Permanent Pasture for Medium Soil

Though many farmers so rotate their crops that the permanency of their mowing fields is not of great consideration, such as regularly pasture their herds, invariably desire that the pasture shall be permanently productive when once seeded. Aside from permanency, an important requisite is that of continual growth from early spring until fall, and as many varieties as possible should be used which bear constant trampling and continued close grazing. This mixture is prepared with these ends in view. 40 to 50 pounds to the acre. Lb. 40 cts., 10 to 40 lbs. 32 cts. per lb., 40 lbs. or more 30 cts. per lb.



Red Top





A field of Worcester Timothy (99½ per cent pure)

**ITALIAN RYE GRASS** (*Lolium Italicum*). Thrives on a variety of soils, producing early and large crops. Though a perennial, it is short-lived and generally treated as an annual. Valuable for soiling season. Lb. 10 cts., 10 lbs. \$1.50.

**KENTUCKY BLUE GRASS** (*Poa pratensis*). One of the most valuable grasses for pasture and lawn, requires some time to become established, but lasts indefinitely on congenial soils. Much of the seed of this grass that is offered does not weigh over 14 lbs. to the measured bushel—the old standard weight—and even some offered as “fancy” does not weigh but 16 lbs.

**FANCY EXTRA RECLEANED.** 21 lbs. to the bushel. Lb. 40 cts., 10 lbs. \$3.80, 100 lbs. \$35.00.

**MEADOW FESCUE** (*Festuca pratensis*). Largely used for permanent mowing mixtures. Though at once productive, it does not reach its full production for two or three years, when it surpasses most other grasses. Succeeds best on cool, moist soil, rich in organic matter. Lb. 40 cts., 10 lbs. \$3.80.

**MEADOW FOXTAIL** (*Alopecurus pratensis*). One of the best pasture grasses; makes an earlier growth than any other variety, thrives best in low, moist land, but grows well on high, light soil and bears extreme summer heat without burning. Market Price.

**ORCHARD GRASS** (*Dactylis glomerata*). One of the most nutritious and valuable grasses, early, hardy, and permanent, and thrives in all soils and situations. Bears frequent mowing and constant cropping, and is very productive. Should be included in liberal proportions in most mixtures for both mowing and pasture. Lb. 25 cts., 10 lbs. \$2.30, 100 lbs. \$20.00.

**TIMOTHY** (*Phleum pratense*). Timothy is the standard hay of commerce. The cheapness of the seed, the ease of culture, and excellent quality of the hay make it a favorite.

It is adapted to all soils, but succeeds best on moist loams and clays. The life of a Timothy field varies according to soil and climate. It produces the most profitable yields the first and second years.

**WORCESTER GRADE.** There are many grades of Timothy in the market and many of these are of a high purity test; but there is a vast difference in the quality of pure seed. Much of this is light

seed, cleaned and recleaned until the purity is of a high percentage, almost 100% pure, but still remains light seed which under the best conditions is of only fair germination.

Our Worcester Grade is a seed which is of the highest quality at the start. Taken from the best fields of full ripe seed, we can assure you, that after going through the cleaning process we can guarantee a purity of 99.5%. In the Worcester brand we are sure we are offering the best seed it is possible to obtain.

Price per lb. 20 cts. 25 lbs. or over 16 cts. per lb.

**WACHUSETT GRADE.** This grade is of fine quality, better than most seed offered as prime. We guarantee this 97.5% pure. Lb. 18 cts., 25 lbs. or over 15 cts. per lb.

**FANCY RED TOP. WORCESTER GRADE.** (*Agrostis vulgaris*.) Next to Timothy this is the most largely used grass; it is highly recommended both as a permanent pasture and as a meadow grass for hay, throughout New England and the Southern States. It will not do well in sandy or leachy soils, but it is said to be adapted to a wider range of soil and climatic conditions than any cultivated grass grown in America. Used extensively in lawn mixtures. Lb. 25 cts., 10 lbs. \$2.20, 100 lbs. \$20.00.

**RED, or CREEPING FESCUE** (*Festuca rubra*). A creeping-rooted grass thriving in dry, poor soils. Forms a close, firm turf and is valuable for shaded lawns. Also valuable for gravelly banks and exposed hillsides. Pound 50 cts., 10 lbs. \$4.50.

**RHODE ISLAND BENT** (*Agrostis canina*). Of fine growth, forming a close and permanent sod. One of the best lawn grasses and desirable for pasture mixtures. Market Price.

**ROUGH-STAKED MEADOW GRASS** (*Poa trivialis*). Thrives on moist, rich land. Valuable for both meadows and pastures, but should be used only in mixtures. Especially desirable for shaded lawns. Market Price.

**TALL MEADOW OAT GRASS** (*Avena elatior*). A very hardy species, making an early and luxuriant growth and continuing to grow until late in the fall and is, therefore, especially desirable for pastures. It makes good hay and when used for soiling, can be cut several times in the season. Lb. 40 cts., 10 lbs. \$3.50.





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## CLOVERS



Crimson Clover

It has been demonstrated many times that crops following a growth of Clover are larger and of better quality than when grown on land which has produced the same crop year after year. Clover should be rotated with grain crops every three to five years. The small nodules or bacteria which cling to the roots possess the power to draw nitrogen from the air and store it in the soil where it can be drawn upon by subsequent crops. We advise, always sowing clover with grass seed as it restores fertility and can be pastured in the fall to good advantage or may be plowed under for green manure.



Medium Red Clover

**ALSIKE, SWEDISH or MAMMOTH WHITE CLOVER.** This is one of the hardiest varieties known. It is a perennial and does not winter kill. It will thrive better on moist land than any other variety of Clover and is suitable for either hay or pasture. When sown with other grasses, it forms a very thick undergrowth and greatly increases the yield. Sow 6 to 8 pounds per acre. Price, lb. 40 cts., 10 lbs. \$3.80, 100 lbs. \$35.00.

**CRIMSON or SCARLET CLOVER.** This is an annual of strong erect growth, one to two feet high. It roots deeply and places in the soil an abundant supply of nitrogen. When plowed under it adds to the soil a large amount of humus thus preparing it for following crops. Sow 18 to 20 pounds per acre. Price, lb. 20 cts., 10 lbs. \$1.80, 100 lbs. \$15.00.

**MAMMOTH, or PEA VINE** (*Trifolium pratense* var.). A species of the Red Clover commonly known as Sapling Clover or Pea Vine Clover. On good soils this will produce a much larger crop than the Medium Red and as it is in bloom a little later is considered better for sowing with Timothy. Price, lb. 37 cts., 10 lbs. \$3.50, 100 lbs. \$32.00.

**MEDIUM RED CLOVER.** This is regarded as the most valuable of the clover family. It is a dependable all-round variety for stockmen and farmers. It will make two crops a season, if cut as soon as it comes into bloom the first time a good second crop can be harvested. This makes excellent feed for all stock. Sow 10 to 12 pounds per acre. Price, lb. 35 cts., 10 lbs. \$3.30, 100 lbs. \$30.00.

**WHITE or DUTCH CLOVER.** A low close growing clover. Very desirable for lawns. It will withstand very close cutting and grows very quickly. It is nearly always used with other grasses and will thrive on almost any soil. Price, lb. 80 cts., 10 lbs. or over 75 cts. per lb.

## SWEET CLOVER

**WHITE BLOSSOM.** This is a native of all parts of the United States and Canada and is a valuable addition to farm crops. It is an erect branching biennial plant with woody stems growing the first season 2 to 3 feet high and developing a large root. The second year's growth usually reaches a height of four to seven feet. It bears seed the second season and then the plant dies, so it is easily controlled by cutting before the plant goes to seed which will prevent any seed being self sown. Sweet Clover grows in a variety of soils, in fact will thrive in any but an acid soil and is a splendid crop for plowing under as it supplies so much humus and nitrogen to the soil. Sow 15 to 20 pounds per acre. Price, lb. 25 cts., 10 lbs. or over 20 cts. per lb.





## MILLETS

The varieties of Millet are among the oldest of cultivated grains. A large part of the world's inhabitants subsist upon the different Millets, especially in Africa, Turkey, Persia, India and Japan. However, in our country we are chiefly interested in the use of Millet as a stock food.

Millets are especially adapted to regions of light rainfall and hot weather. They are used principally for forage, being very valuable where Timothy is an uncertain crop. The hay is fed most satisfactorily to dairy cows and sheep. In feeding value it ranks well above Timothy.

### GOLDEN MILLET

The stems are single or few in number from each root, they grow large and stout, unbranching. The leaves are rather short, broad and stiff, the heads are often an inch in diameter and 6 to 8 inches long. The seeds are small, of a golden or yellow color. This will give a very heavy tonnage of first class feed. With thin seeding the stems become coarse and reed-like, therefore we recommend using a liberal quantity of seed. Price, lb. 10 cts., 100 lbs. \$8.00.

### HUNGARIAN MILLET

An excellent food for horses when cured.

This is commonly known as "Hungarian Grass." Each root sends up several slender stems which often branch. The leaves grow upright, rather narrow. Heads are borne erect or nearly so, about four inches long, dark purple in color, bristly and very compact. The seeds are brownish black mixed with yellow. This variety withstands drought remarkably well. If its growth is checked by dry weather the least rain will restore its vigor. It flourishes in light, dry soils, but does best in good soils, well manured. This gives a very fine quality of hay on account of its slender, leafy growth. Price, lb. 10 cts., 100 lbs. \$8.00.

### JAPANESE MILLET

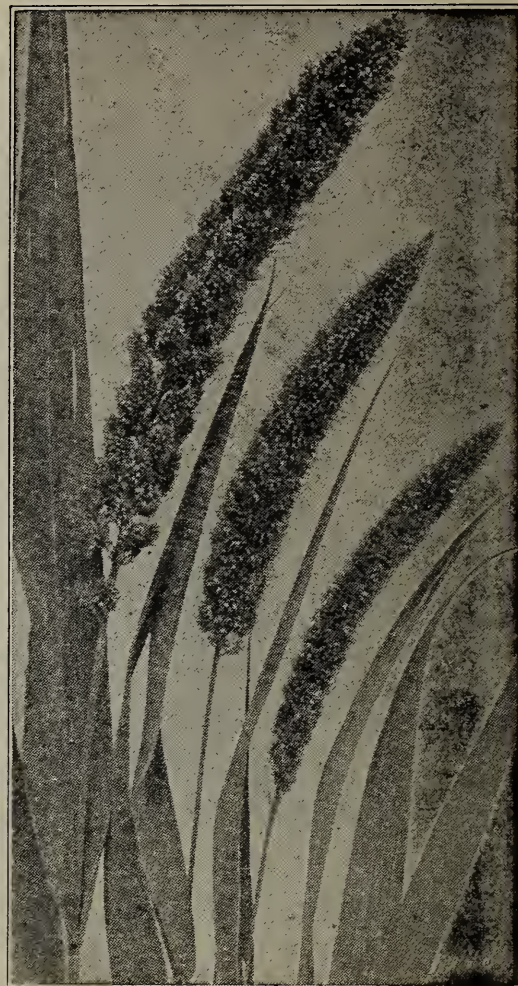
Improperly called "Billion Dollar Grass." Entirely distinct from all other Millets. It grows from 6 to 9 feet high, stands up remarkably and yields enormous crops.

When cured it makes good hay and in quality is superior to corn fodder. It is relished by all kinds of stock.

Japanese Millet stools freely. Its leafage is heavy and heads very compact. This variety does best on moist, rich lowlands, as it does not endure drought well.

It may be sown broadcast at the rate of 15 lbs. an acre, but it

is better to sow in drills 12 to 18 inches apart, using 10 to 12 lbs. to the acre. Cultivate until the plant is 18 inches high, when its rapid growth will smother all weeds. Price, lb. 12 cts., 100 lbs. \$10.00.



Japanese Millet



Sudan Grass

## Sudan Grass

### WHAT SUDAN GRASS IS

It is the most prolific and dependable hay crop in the area of limited rainfall in the North and West. Introduced into the United States by Professor C. V. Piper, of the Department of Agriculture, in 1909, it has surpassed the fondest expectations and undoubtedly will replace the millets over a large area where the latter are hay producers at the present time.

If planted in drills, cultivate often and shallow. The roots grow near the surface, and deep cultivation after the plants get well started will cut off a large proportion of the roots and reduce the yield. The cultivation may be done with the ordinary corn cultivator. Keep the soil well worked until the plants cover the ground so that weeds will not grow.

Sudan, growing as it does, frequently as high as 9 feet, when planted in rows and cultivated, and 4 to 5 feet when sown broadcast, exceeds any other grass in yield. For a grass its yields are nothing short of miraculous, often reaching seven tons per acre, seldom running less than four tons.

In the Southern States three crops are becoming the rule, while in Minnesota, Dakota and the Northwest, only two cuttings are secured, or a total yield of about four tons. On irrigated land it should yield six to nine tons easily. As a catch crop Sudan is fully equal to Millet.

The quality of the hay is exceptionally high, chemical analysis showing it to be of equal value with Timothy and Johnson Grass. It is equal to Millets in feeding value and gives much heavier yield. The hay is nutritious, palatable and highly relished by stock.

Price, lb. 25 cts., 25 lbs. or over 20 cts. per lb.





# EVERYBODY KNOWS ROSS' SEED GROWS



It will pay any farmer this year to feed out his common field Oats and raise a big crop of one of the following varieties. To insure a big crop of Oats it is necessary to change your seed stock frequently, and sow the best you can buy.

## Seed Oats

Sow 3 bushels per acre.

Oats should be sown in April and early May to secure best results and a good heavy seed should be used, good seed oats weigh from 36 to 46 pounds per measured bushel and a lighter oat is not fit for seeding purposes. You cannot afford to buy common feeding oats for seed, the extra cost per acre for good clean oats free from all dirt and weed seed is very small when you consider the increase in yield.

### LONG'S WHITE TARTAR OATS

The Ideal Side Oat for the American Farmer.

The earliest, heaviest and most prolific domestic-grown Side Oat in cultivation. It is suitable for all soils; of robust and vigorous constitution, is remarkably early and an immense cropper; the straw is long and stout, stands up well and does not readily lodge or twist. The heads measure from 8 to 10½ inches, and the kernels are of immense size, thick, plump and heavy; it is undoubtedly the heaviest cropping domestic white Oat ever offered.

Its extreme earliness, great length and strength of straw, thick, plump grains and the heavy yields it is capable of producing give Long's White Tartar all the necessary qualifications which go to make an ideal Oat. Pk. 55 cts.; bu. \$2.00; 10 bu. or more \$1.75 per bu.



Field of White Tartar Oats on our own grounds



Swedish Select Oats

### EARLY NEW MARKET OATS

Our grower writes us: "We consider the Early New Market Oat one of the best New English introductions, as it is exceptionally early, produces a long stiff straw, which does not readily lodge and the grain is very plump, meaty and heavy." We have an excellent sample of these oats and shall have a fair quantity with which to supply our customers, but we advise early buying in order to avoid disappointment. Price, pk. 55 cts., 1 bu. (32 lbs.) \$2.00, 10 bu. or over \$1.75 per bu.

### ROSS' "SWEDISH SELECT" OATS

Extra Heavy Re-cleaned Seed

Introduced a few years ago by the U. S. Department of Agriculture and today the most largely planted of all varieties in the Northern Central States. Briefly described the oat is pure white in color; the hull is thin and the kernel large and plump; straw is stiff and strong enough not to lodge. A remarkable root development makes the Swedish Oat a good drought resister—a special feature on light soils. Season medium early and the earliest of the heavy yielding sorts. Especially suited to high land.

Price, pk. 55 cts., bu. (32 lbs.) \$2.00, 10 bu. or more \$1.75 per bu.

After repeated tests, the following is said of this popular variety of oats:

At the Wisconsin Experimental Station: "It has stood at the head of the list for several years."

Professor Moore of Wisconsin says: "The most satisfactory Oat of all."

Ross Bros. Co.,  
Worcester, Mass.

Lisbon, N. H., R. F. D. Box 33.

Dear Sirs:—

Find enclosed stamps for balance. Will say that seeds are fine. I have the best piece of oats in this vicinity.

O. T. Schoff.



## ALFALFA

### Facts About Alfalfa

There is no state in the Union in which Alfalfa cannot be successfully grown. Alfalfa is worth more than clover, for it has a higher feeding value and it yields more per acre.

It has as much protein as wheat bran. Over 300 stalks have been grown from one seed. It will grow 3 to 5 crops in a season. Alfalfa does not exhaust the soil, it enriches the soil. In money value it is worth far more than clover or Timothy hay.

As a soil builder the Experiment Stations tell us that it adds twice as much nitrogen to the soil as the average acre of Red Clover.

Just bear in mind that the Alfalfa plant produces an enormous root growth, these roots penetrate the subsoil to a great depth, loosening the potash stored below, making it available as plant food in such a manner as is impossible to duplicate with a plow.



Northwestern Grown Seed. We guarantee this to be 99 per cent pure—and absolutely free from dodder and tree-foil. Price, lb. 45 cts., 50 lbs. or more 40 cts. per pound. No charge for tags.

## GRIMM ALFALFA

**GRIMM ALFALFA.** So called from the fact that it was introduced in Minnesota by a Mr. Grimm from Europe, who called it Norwegian Alfalfa. This strain of Alfalfa has proven superior to all others, coming through our most severe winters without being injured, where the ordinary strains sometimes suffer severely. The most important feature connected with the introduction of the Grimm Alfalfa is its spreading root and crown. Its spreading root allows it to be grown on land which has a subsoil that is impossible for roots to penetrate; while its crown being broad allows closer cropping or cutting without injury. We are able to supply True Grimm Seed. Price: Lb. 80 cts.

**Inoculate Your Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches and all other legume crops with**

## Mulford Cultures FOR LEGUMES

**Small Cost   Large Returns   Easy to Use   No Labor Expense**

Mulford Cultures contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.

Mulford Cultures are scientifically prepared and tested with the utmost care and skill. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

Legumes offer the best-known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton, corn and other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield. Mulford Cultures are prepared for Alfalfa, Crimson Clover, Sweet Clover, Red Clover, Alsike Clover, Burr Clover, Cow Peas, Soy Beans, Peanuts, Vetch, Velvet Beans, Sweet Peas, Garden Peas, Garden Beans, Lima Beans, Lespedeza, Beggar Weed and others.

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

Prices: 5-Acre Size, \$5.00 (A Dollar per Acre), Mailing weight 5 lbs.; 1-Acre Size, \$1.50, Mailing Weight 1 lb.; 1/4-Acre Size, 75 cts., Mailing Weight 1 lb.; Small Size (Supplied only in four varieties, for Garden Peas, Garden Beans, Lima Beans and Sweet Peas), 35 cts., Mailing Weight 1 lb.

**FREE DESCRIPTIVE FOLDER SENT UPON REQUEST.**







# EVERYBODY KNOWS ROSS' SEED GROWS



A Field of Dwarf Essex Rape

## Dwarf Essex Rape

It is an annual, bearing a close resemblance in leaf and stalk to the Rutabaga, but both leaves and stalks are more numerous in the Rape plant which may be eaten off by any kind of live stock, but it is preeminently fitted to furnish pasture for sheep, cattle and swine.

It should be from eight to twelve inches high when stock is first turned in and it ought to make growth enough to support at least ten sheep per acre during the growing period of the Rape crop. Rape makes a second growth from the standing roots when the livestock is removed, and may be repastured later. Successive sowings, made three or four weeks apart until July 1, will give a very satisfactory feeding crop throughout the entire Summer.

**Culture.** Rape is best adapted to moist, rich soil in which there is plenty of humus. Slough lands are especially good. It grows best in cool, moist weather and the time for sowing depends upon when the crop is to be used. When wanted for pasture, allow 8 to 10 weeks for it to attain maximum growth. Sow 1 to 2 pounds of seed per acre in drills and cultivate, for a weed-cleaning crop. For broad-casting, use 5 pounds per acre on rich, weed-free soil, so that the Rape will not be choked by weeds.

For continued hog pasture, sow Rape early and at successive intervals. It may well follow any grain crop and is always splendid to plow under for green manure. Price, lb. 18 cts., 100 lbs. \$15.00.

## Barley

For grain, 2 bushels to the acre; for forage, 3 bushels, 48 lbs. to the bushel

**CHEVALIER.** A two-rowed variety. Head is a little longer than the six-rowed varieties and the grain is larger, plump, extra-heavy and in favorable seasons nearly white. On account of its attractive appearance, and fine quality, the grain brings the highest price, while the variety is extensively grown for green forage. Pk. 75 cts., bu. \$2.75.

**MANSURY.** In our section this six-rowed variety is largely grown for forage. It yields abundantly. It is early and very vigorous in growth. The straw is strong and stiff and seldom lodges. The heads are long and well filled. No other Barley excels it for feeding or malting purposes. Pk. 75 cts., bu. \$2.75.

**BEARDLESS.** Earlier than any of the bearded varieties and is generally considered more hardy. The straw is heavy and stands up well under a large crop. Very popular for forage and especially valuable for hay as the heads are entirely free from beards which when dry are thought to often be injurious to cattle. The grain, while it germinates well, is always light in weight and of rather inferior appearance and, though a productive variety the chief value of the Beardless is for forage or hay. Pk. 75 cts., bu. \$2.75.

**WE ARE MEMBERS OF THE AMERICAN SEED TRADE ASSOCIATION, WHICH HAS ADOPTED THE FOLLOWING RESOLUTION:**

**RESOLVED:** That the American Seed Trade Association assembled at the 38th annual Convention at Milwaukee on June 22nd, 1920, does now clearly and solemnly affirm and pledge its sincere and active support of those principles of honest representation of Seeds and other commodities sold or offered for sale by catalogue or otherwise by members of this association and by Seedsmen generally. That this association believes in and encourages the enhancement of the value and volume of agricultural products by the improvement of the quality of seeds, the elimination so far as possible and practical of weed seeds and the compliance by Seedsmen with fair seed laws and regulations.

Furthermore, we condemn any Seedsmen as unworthy of membership in this association whose practices violate the aforesaid principles.

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**COMPETITION FORCES US TO SELL GOOD SEEDS AT FAIR PRICES AND OFTEN AT SMALL PROFIT, BUT IT NEVER HAS NOR EVER WILL COMPEL US TO SELL POOR SEEDS.**





## Peas, Canada Field

A Field of Canada Peas

"Oats and Canada field peas make the best green crop to follow clover. Generally it is advisable to make three sowings; the first as early as possible in the spring, April 20 to 25, and the second and third fifteen and thirty days later. One and one-half bushels each of the oats and peas is the usual quantity to the acre. They may both be sown broadcast at the same time after the land is plowed, and thoroughly harrowed in with a wheel harrow. Some sow the peas first, covering with a wheel harrow, then sow the oats and cover with an acme or similar harrow. This method, however, is hardly necessary. The first sowing will be ready about June 25 and cutting should begin as soon as the oats show the head. The average yield from the first sowing is 10 tons to the acre. The yield from the second and third sowings is not likely to be as heavy, as the crop matures quickly during the warm weather. Oats and peas will remain in condition to be cut for 10 or 12 days. The average cow will consume 60 to 80 pounds daily until the feed becomes tough. One-third to one-half acre will furnish sufficient fodder for 10 cows twelve days."

**CANADA PEAS** may also be sown with other grains as well as with oats, and are sometimes sown in August with Barley. They are also sometimes sown alone. Choice stock for seed. Pound 12 cts., 25 pounds or over 10 cts. per pound. Full sack of 150 pounds 9 cents per pound.

## Cow Peas

Mulford Culture for Cow Peas see Page 8

In drills one bushel to the acre.  
Broadcast, 2 bus. 60 lbs. to the bu.

Cow Peas are as tender as beans and therefore the suggestion sometimes made that they may be sown with Oats is unwise. As they are of very rapid growth during the warm season they may in this latitude be sown as late as the first of July with a reasonable expectation of a crop suitable for fodder or plowing under.

Cow Peas produce an enormous bulk and for this reason the plant is a favorite with some as a forage plant and also as a humus maker when plowed into the soil. It is, of course, like all the legumes, a soil enricher as well. The Cow Peas will grow on all kinds of soils from stiff clay to sand, barren uplands, and used either as green fodder, hay or as silage, the product is of high feeding value. While for plowing under on stiff clay soils the growth should be turned under while green, it is generally considered that on light sandy land the vines should be allowed to partially decay on the surface before they are plowed into the soil. All crops seem to do well after Cow Peas.

**WHIPPOORWILL.** The most popular variety in the North, very early. Pk. \$2.10, bu. \$8.00.

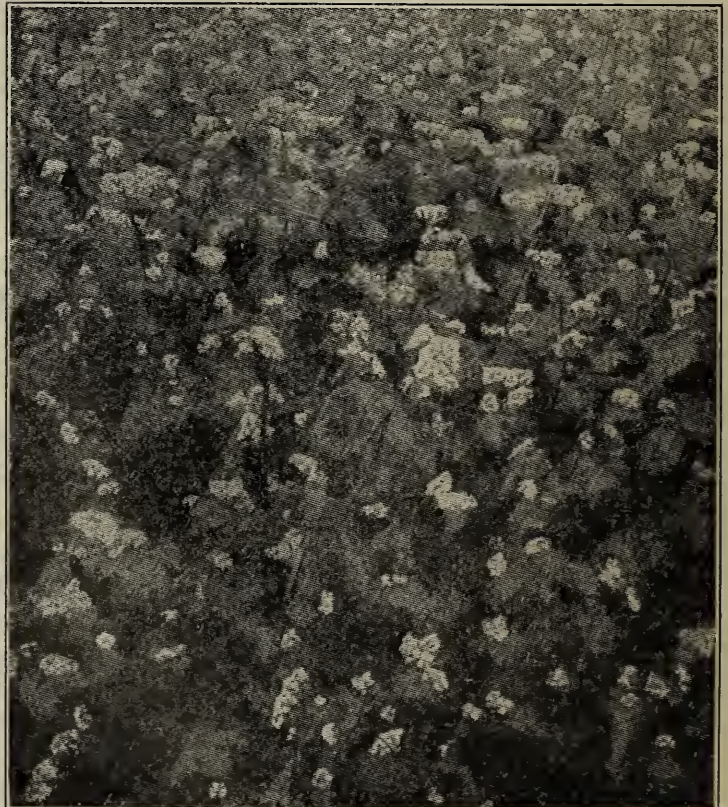
**NEW ERA.** A new extra early variety, earlier than the Whippoorwill, maturing in about 60 days. Pk. \$2.10, bu. \$8.00.

## Buckwheat

For grain, 1 bushel to the acre; for soiling  $1\frac{1}{2}$  bushels. 48 lbs. to the bushel.

**JAPANESE.** This is entirely distinct from all other varieties. It has the advantage of remaining some time in bloom and produces seed earlier. On this account it can be grown farther north. It resists drought and blight better than most varieties. The seed is larger than the Silver Hull and is a rich brown color. Pk. 75 cts., bu. \$2.50.

**COW PEAS**—As soil renovators and enrichers, have few equals; like other leguminous plants, besides yielding a bountiful crop, they increase the fertility of the soil by collecting nitrogen from the air and adding this expensive fertilizer to the land at a minimum of cost.



A Field of Buckwheat in Bloom





# EVERYBODY KNOWS ROSS' SEED GROWS



## Rye

For grain, 1 bu. to the acre, for forage or soiling  $1\frac{1}{2}$  bu. 56 lbs. to the bu.

### SPRING RYE

**True Stock.** Spring Rye makes an excellent crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Sow seed same time as other spring grain. Does not grow quite so large straw as Winter Rye, but usually yields well and grain is of fine quality.

We wish to emphasize the fact that we sell the genuine Spring Rye, sown in the Spring and harvested the same season.  
Price, pk. 80 cts., bu. \$3.00.

### ROSEN WINTER RYE

To Prof. Spragg, of Michigan Agricultural College, is due the credit for developing this most remarkable grain, which we believe is destined to add many thousands of dollars annually to the value of farm crops in the United States.

A Russian student of the Michigan Agricultural College brought with him from Russia a handful of rye which he gave to Prof. Spragg, who planted it, and from the crop selected a single plant which showed exceptional characteristics. The grain from this plant was saved and planted the next season and from this crop he again selected plants of the most promising type, repeating this process from year to year until he had sufficient seed to parcel out among a few expert farmers in different sections, at the same time continuing it as a crop at the State Experimental Farm in Michigan, where for three years the average yield has been 41.3 bushels per acre, of an exceptionally high quality of grain.

The development of Rosen Rye has been of such a character and the present supply has been so carefully handled, that it is safe to say it is the purest pedigree seed in existence, as the growers have taken particular pains to prevent cross fertilization and mixing with other grains.

Rosen Rye produces a strong, vigorous straw and stools to a remarkable degree. The grain is large, plump, heavy and of a beautiful color, commanding a premium on the market over other grains. Owing to its vigorous stooling property less seed is required, the practice being about one and one-half bushels per acre. We believe that Rosen Rye is cheaper to sow even at double the price of common rye, for the excess yield will more than pay for the seed, not to mention the better quality and higher price to be obtained for the crop. Price, pk. 80 cts., bu. \$3.00.



Rosen Winter Rye

All prices in this catalogue are based on the lowest market prices at time catalogue goes to the press but they are subject to market changes. This applies to both advance and decline.

## Soy or Soja Bean

$\frac{1}{2}$  to  $\frac{3}{4}$  bushel to the acre in drills  $2\frac{1}{2}$  to 3 feet apart.

This is another valuable legume, growing in favor for forage and ensilage, often succeeding well on land too light for clover. While it has not been so generally grown in this country as the Cow Pea it is considered by some preferable for the North, as it does not require so long a season.

**MEDIUM EARLY YELLOW.** Pk. \$1.50, bu. \$5.50.

**ITO SAN.** Ito San Soy should ripen anywhere in the North—it is Northern Grown Seed. Northern Grown Seed sown in the South produces larger yields, stronger vines, higher nutritive value. Matures in 90 days, grows  $2\frac{1}{2}$  to 3 feet high. Immensely productive. Pk. \$1.60, bushel \$6.00.

**MULFORD CULTURE FOR SOY BEANS SEE PAGE 8**



Soy Beans

## Sweet Clover

**WHITE BLOSSOM.** This is a native of all parts of the United States and Canada and is a valuable addition to farm crops. It is an erect branching biennial plant with woody stems growing the first season 2 to 3 feet high and developing a large root. The second year's growth usually reaches a height of 4 to 7 feet. It bears seed the second season and then the plant dies, so it is easily controlled by cutting before the plant goes to seed which will prevent any seed being self sown. Sweet Clover grows in a variety of soils, in fact will thrive in any but an acid soil and is a splendid crop for plowing under, as it supplies so much humus and nitrogen to the soil. Sow 15 to 20 pounds per acre. Price, lb. 25 cts., 10 lbs. or over 20 cts. per lb.





Modern wheatfield scene, first wheatfield in America illustrated on back cover.

## Wheat

1½ bu. to the acre, 60 lbs., to the bu.

**MARQUIS SPRING WHEAT** was originated by Chas. and William Saunders of Ottawa, Canada, by crossing Red Fife and Hard Calcutta, a native Wheat of India which had become acclimated to northern conditions. The first experiments were conducted in 1886, and it was not until 1903 that it was fully developed. By scientific cross breeding, a variety was produced that inherited the remarkable earliness of the Calcutta, and the frost-resistant and yielding qualities of the Red Fife. The original stock of seed was very small, but by careful husbandry the amount was gradually increased so that it might be disseminated throughout America. Marquis Wheat won the One Thousand Dollar prize offered by Sir Thos. Shaughnessy for the best wheat in America, at the New York Grain Exposition in 1911. It also won the Three Thousand Dollar prize at the International Dry Farming Congress at Lethbridge, Alberta, in October, 1912, in a competition open to the whole world. Marquis Wheat was again successful in winning the Sweepstakes prize at the Dry Farming Congress held at Tulsa, Oklahoma in 1913. During seasons 1914 and 1915 this variety won more prizes and blue ribbons than any other Wheat exhibited at national, state and county fairs. It is earlier than most varieties and this fact alone should induce many to grow it. It has out-yielded all other Spring Wheats grown under the same conditions of soil and climate; the increased yield being up to 10 bushels per acre. Marquis Wheat is flinty and dark in color being almost dark red. It is a beardless variety having a smooth yellow chaff. Price, pk. \$1.00, bu. \$3.50.

**WINTER WHEAT.** The yield on Winter Wheat per acre is on the average very much larger than any of the spring wheats. It should be sown early in the fall to secure a good firm root to survive our New England winters. Winter Wheat makes an excellent green feed coming very early in the spring and staying in condition for feed much longer than spring or Winter Rye.

**RED WAVE** (Beardless). Considered the best and most productive variety in cultivation. Heads very long and broad, filled with medium long, large, hard, dark kernels. Straw, golden, medium height, stocky and strong. Bu. (60 lbs.) Market Price.

**WINTER—KLONDIKE.** A remarkably productive bald white variety large and plump. Excellent for green feed. Bu. (60 lbs.) Market Price.

## Vetches

One bushel to the acre; with oats or rye, ½ bu. 60 lbs. to the bushel.

**SPRING VETCH, or SPRING TARE.** This, like Field Peas, is used for both green fodder and for plowing into the soil. In this latitude it can be sown only in the spring and is more largely used in this season than the Hairy Vetch which may be sown either in the spring or fall. Thriving on rather poorer soil than Canada Peas, its use is rapidly increasing as a green fodder. Lb. 15 cts., 10 lbs. or over 12 cts. per lb.

**WINTER, SAND, or HAIRY VETCH.** (*Vicia villosa*.) While this will be of much larger growth on good soil and should be grown on such soil when the crop is designed for green fodder or hay, it thrives remarkably well on light, poor soil. Though it produces on good land an enormous crop and whether used green or as hay is more nutritious than Clover and readily eaten by all kinds of stock and is therefore a profitable crop to grow for feeding, it is perhaps of greater value for other purposes. No other legume surpasses it as a nitrogen gatherer and no other equals it as a cover crop. It is perfectly hardy, remaining green all winter and is therefore much superior to Crimson Clover in the Northern States as a cover crop. It also produces a much larger bulk than Crimson Clover and is therefore superior to it as a humus maker. In this respect as well as a cover crop it is fully equal to Winter Rye and is superior otherwise as, in common with other legumes, it adds nitrogen to the soil. Though rather slow in starting in the spring, when once started it grows rapidly and will generally, by May 1st, have made a growth of 18 inches or more. As the stems are rather weak, it is generally sown with grain which serves as a support. Seed is usually sown in August or September at which time either Rye or Wheat may be sown with it. If sown in the spring Oat sars generally sown with it but sometimes Barley is used. When sown at this time the crop is generally used for feeding. Lb. 30 cts., 10 lbs. or over 25 cts. per lb.

**MULFORD CULTURE FOR VETCH SEE PAGE 8**



Winter Vetch





EVERYBODY KNOWS  
ROSS' SEED GROWS



## The Sheffield World Prize Flint Corn

Introduced by us in 1911 after its winning first prize at the New England Corn Show at Worcester, Mass., 1910. 123.8 bushels of Crib-Dry Corn per acre. This corn was also awarded a Silver Medal at the October Exhibition of the Worcester Horticultural Society, 1912.



A TRACE OF SHEFFIELD EARS—OUR OWN GROWING

**SHEFFIELD WORLD'S PRIZE FLINT CORN** which we introduced in 1911 is an early eight-row variety which has been grown in Vermont since 1867. The seed was brought to Sheffield, Mass., and has been grown in that town ever since. The ear of this corn has a very compact form, usually well capped at the tip, similar to the Improved Canada. The average length of the ear is 8 to 8½ inches, the kernels are very broad, and of dark color. This corn exceeds in proportion of corn to cob any other variety. In a trial made by Mr. Chapin, who won the first prize at the first New England Corn Show held in Worcester, in 1910, he found that it took but 63 lbs. of ears to make a bushel of 56 lbs. of shelled corn. This corn will mature in 90 to 95 days. Corn on our farms planted June 11 was safe and germinated very high, with a frost September 7.

Sheffield corn is a safe variety to plant where early frosts are expected or in states where the season is generally short. While it may be possible under favorable conditions and high fertilizing to produce more bushels of corn of some of the longer varieties, in our opinion the Sheffield is the safest and surest kind to plant for a general crop. We have not been able for the past three seasons to anywhere near fill our orders on this variety but as the past season has been more favorable we hope to be able to get enough of this to fill our orders, but in ordering we wish our customers would state whether we could substitute in case we should be out.

Price ½ pk. 70 cts., pk. \$1.25, bu. \$4.50.

Arlington, Vermont, R. F. D. 2,  
Oct. 7, 1918.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—The Sheffield World Prize Flint Corn I got of you last spring did certainly do wonders for me. I have about 3 acres of the nicest corn I ever saw of which I will enclose some snap-shots of same later.

Would be glad to hear from you, as to your handling it for seed, or have you plenty of it on your own fields. It was planted June 4 and matured in O. K. condition.

Very truly yours,

John L. Mattison.

Waitsfield, Vt., Aug. 26, 1919.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—

Some months ago you shipped me a few bushels of Sheffield Prize Flint Corn and I find that it ripens nearly ten days earlier than a strain that some of the farmers obtained through the Farmers' Exchange, which is a good selling point with me. Can you furnish me with this same strain next season and can you give me an idea as to price? Thanking you for an early reply I remain,

Yours truly,

W. E. Jones.



A field of Sheffield Flint Corn



# Ross' Eureka Ensilage Corn

**HAS A RECORD OF 70 TONS AND 800 LBS. OF CORN GROWN ON ONE ACRE.**  
**Enough to feed 7 head of cattle for 1 year and enough left over for**  
**261 days, eeding at the rate of 50 lbs. per day..**



Eureka Corn grown at Worcester State Hospital

Price, bags included, 1/2 Pk. \$1.00, Pk. \$1.75, Bu. (56 lbs.) \$5.00.  
 10 bushels or over \$4.75 per bu. in our trade-marked bags.



A good crop of Eureka Corn

State of Connecticut  
 Mansfield State  
 Training School and  
 Hospital  
 Mansfield Depot, Ct.  
 Mansfield Depot, Conn.  
 Nov. 14, 1918.  
 "The Eureka Seed  
 Corn we received  
 from you last spring  
 was excellent and we  
 could not ask for a  
 better crop than we  
 had this year."  
 W. F. FARRINGTON,  
 Steward.



This corn was originated in Virginia about 35 years ago and has been grown on the same farms there for us ever since. It is the result of careful selection for many years from the old southern prolific corn which often has 5 to 8 ears on a stalk. This selection was made with the view of getting a larger ear and more foliage. It has been grown entirely away from other kinds and it is a distinct variety and a great improvement over any other Southern White Dent Corn.

Corn has been offered by others under the name of Eureka but is simply the common Southern White that they are offering and at the time of cutting there will be as much difference as there is between Crosby and Stowell's Evergreen. Eureka is a Smooth White Dent Corn with short kernels, while many of the southern white varieties have the horse tooth kernels. There is but one Eureka Ensilage Corn and that is put up in our trade marked bags. Be sure and get the genuine. Either buy direct from us or other dealers who are handling it in our trade marked bags.

## ROSS' EUREKA ENSILAGE CORN

grows the tallest, has the most leaf, will produce more tons of good material for the silo than any other kind. Eureka Corn not only grows the tallest, has the most leaf, but is as well very productive of ears. In the South it usually yields about 100 bushels of shelled corn per acre and sometimes considerable more. In the Northern States Eureka should be sown strictly as an ensilage variety for it will get into proper condition for cutting early in September. Its value for ensilage is due to its enormous growth and great production of leaf and ears. Matured corn should never be put into a silo.

We sell other varieties of corn used for ensilage and if it is desirable to have a variety of corn that will mature its ears, then to our customers in the Northern States we will recommend some such variety as Leaming or Ross' Golden Dent. While Eureka Corn will not mature its ears in any of the Northern States where frosts are expected early in September, we have seen ears far enough advanced so it will no doubt germinate all right grown right here in Massachusetts. If ears are wanted they can be had on Eureka by planting it thin and where frosts hold off until the first of October, you will get plenty of ears and more leaf than you will get from any other variety of corn grown, but if the main purpose of the silo is to preserve in as nearly as natural a condition as possible the largest amount of fresh green foliage, and large fresh green ears which can be grown on the smallest possible area, then Eureka is the corn to grow. In our opinion and in the opinion of hundreds of the best farmers in the United States, this is the best corn in cultivation.





# EVERYBODY KNOWS ROSS' SEED GROWS



## Read What Some of Our Customers Say About Eureka Corn:—

Holstein, Ontario, Canada, Nov. 4th, 1919.

Ross Bros. Co., Worcester, Mass.  
Gentlemen:—

In regard to the Eureka Corn which I purchased from you last spring, I must say it did splendid. I tested it against three other kinds namely—"White Cap," Leaming, and Southern Sweet, and it grew from 3 to 4 feet taller. It grew about 16 feet tall. It was like some of the testimonials I read last spring. It was very hard to handle as it grew so tall; but however, it was the corn for quantity and the right stuff for the silo. This corn grew along side the road, and as the corn advanced Eureka took the lead; and passers-by wondered what kind of corn it was. I was well suited, and considered the price of it well spent money and hope to be able to get some more for the following spring. Also please send me your 1920 catalogue.

Yours trustily,

John J. C. Queen.

Don't buy a Bushel of Eureka Corn unless it has our trade mark printed on the bag. There is nothing just as good, and you are sure to loose as many dollars as you save cents in the beginning.

Price, bags included, 1/2 Pk. \$1.00, Pk. \$1.75, Bu. (56 lbs.) \$5.00, 10 bushels or over \$4.75 per bu. in our trade-marked bags.



Eureka Corn as it grows in the South.

Dashwood, Ont., Canada, R. R. 1, Nov. 10th, 1919.  
Ross Bros. Co., Worcester, Mass.

Gentlemen.—Referring to the Eureka Corn which I got last spring must say I never had anything equal it. I had eight acres of corn besides this, it being Improved Leaming and Wisconsin No. Seven which I always considered good but the Eureka I am sure turned as much again per acre. It grew from ten to thirteen feet high and I believe if it was sown early and favorable weather have no doubt it might have grown still taller. I can highly recommend the Eureka Corn for growing by far more feed per acre than any other corn that I have ever seen. People came from a distance to see it and every one that saw it said they never saw anything equal it. Don't know how much we will want next spring but we will certainly want some of it.

Yours truly,

Albert Hendricks.

West Pawlet, Vt., R. F. D. No. 1, Nov. 28, 1919.  
Ross Bros. Co., Worcester, Mass.

Dear Sirs:—We received two and one half bushels of Eureka Corn from you last spring and two bushels of Sheffield Flint and we planted all the Eureka so we could cultivate it both ways and it grew on the average 14 feet high and one of it 15 feet in its stocking feet. We could fill our silo twice easy with what we raised; there were two ears on lots of the stalks. We tried to get a picture of it for you but it did not come out good. We planted one bushel of the flint—and it is the best corn we ever planted for ears. We have a fine crib of corn now and still have some to husk. We will send you another order next spring if all goes well. We have bought a farm on the state road in New York State and expect to move later on.

Yours truly,

Conety Bros.

F. A. Barnett & Son,  
Rochester, Mich., Apr. 27, 1920.  
Ross Bros. Co., Worcester, Mass.

Ship via Express  
15 bu. Eureka Ensilage Corn.

Please ship as soon as possible. I know the express charge is high, but we must have this kind if it costs \$10.00 per bu. as it always gives us satisfaction.

(Signed) F. A. Barnett.  
Ludlow, Mass., 7-31-20.

Ross Bros. Co., Worcester, Mass.  
Dear Sirs:—

Have grown an unexpected crop of your Eureka Ensilage Corn. Wouldn't be very hard to find a stalk about sixteen to eighteen feet high. If a man of the Company came out immediately it might do a lot of good to take the corn to the exposition and get a prize as well as sale for hundreds of bushels next spring.

Would like to see some member of the Company at once as am cutting it into silo.

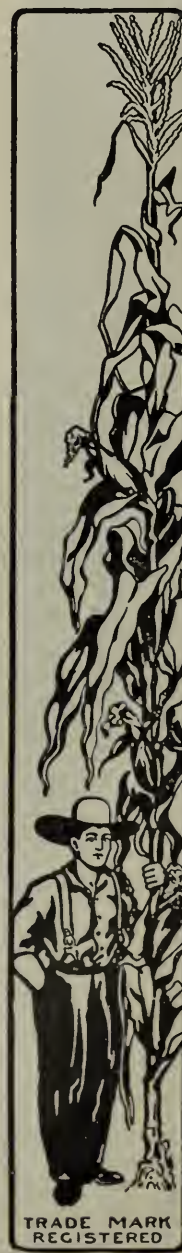
Yours truly,

(Signed) Walenty Zabek.

14 Parker St., Scranton, Pa.  
Corinth, Ont., Canada, Nov. 11, 1919.  
Ross Bros. Co., Worcester, Mass.

Dear Sirs:—Regarding Eureka Corn I liked it fine, it grew 13 1/2 feet high. We had a very dry summer for corn, but Eureka was the biggest in my neighborhood. Please send me your 1920 catalogue as soon as you have it ready, as I will want more, also some of my neighbors want some. I think it is better to fill the silo with the largest corn you can get and grow the Husking Corn by itself. Then you can grind the dry corn and give the chop or the ensilage which I think will give the best results. Hoping you will send me your catalogue. Yours respectfully,

John W. Todd.



Every bag of Ross' Eureka Corn bears this trademark. Adopted for your protection.



# RED TOP FARM

## SANFORD WHITE FLINT

We offer this season an exceptionally fine lot of White Flint, well grown and carefully selected for seed.

It is an eight-rowed white flint variety, the popular type in Rhode Island, being cultivated there almost to the exclusion of the yellow flint. The ear of the strain which is more generally grown there and which we offer as the Rhode Island strain, is of about the same size as the Improved Canada, resembles it very closely, except in color, having the same broad kernel and well-filled tip, and ripens with or very close to it. The variety is rather more leafy than other flint varieties, which is doubtless the reason of its popularity for ensilage in the northern part of New England. The strain, however, which is more largely grown for ensilage, is seed which is grown in the West, and distinctly different. The stalks grow much taller and are more leafy and the ear is much longer and later in maturing. While there are three distinct types of White Flint Corn grown in Rhode Island, we know that the strain which we offer is the most productive, yielding more bushels of corn per acre and also shelling more pounds of corn per bushel.

Price:  $\frac{1}{2}$  pk. 70 cts., pk. \$1.25, bu. (56 lbs.) \$4.50.

## LONGFELLOW FLINT

This, for a long time, has been very popular in southern New England. Ears are eight-rowed and of remarkable length—12 to 14 inches, with occasionally one 15 inches. Stalks are considerably taller than the Improved Canada, but not so large but that they make excellent and easily handled dry stover. When well-grown, owing to the long ear and occasional twin ears, the Longfellow is a very productive variety. Though two ears to the stalk are, of course, desirable, we prefer to give more attention to securing a well-formed and well-ripened ear of typical length rather than to select for breeding stock from stalks bearing two ears if at the sacrifice of any of the above mentioned qualities. The Longfellow is safe for planting in the latitude of Massachusetts, and favorable seasons has yielded large crops farther north.

Price:  $\frac{1}{2}$  pk. 70 cts., pk. \$1.25, bu. (56 lbs.) \$4.50.

## EARLY CANADA FLINT

Improved strain. This strain is in most respects identical with the original, but the ears are longer and stalks are of slightly larger growth. Ears of the original are about six inches in length, while of this strain they are about two inches longer, and of similar or nearly identical strains known as Early Greenfield, Deerfield and Connecticut Valley, ears are often nine inches or longer. While in the hands of different growers the type has been largely maintained, the tendency to select larger ears has been followed by an increased growth or size of stalks making such strains later in maturing. We prefer and endeavor to procure a strain of which the ears are about eight inches long with as small stalks as possible because earlier and more distinct from other varieties, and also more desirable for light soils of only average fertility and for late planting. On stronger and richer soils there are other varieties which would probably be preferable, though because of its earliness therefore, the more nearly certain maturity in unfavorable seasons, its great production of ears and more easily handled dry fodder it is preferred by some for planting on their best and richest land.

Price:  $\frac{1}{2}$  pk. 70 cts., pk. \$1.25, bu. (56 lbs.) \$4.50.

## IMPROVED LEAMING

The Leaming corn was originated in Ohio in 1826 by Mr. J. S. Leaming. This corn was taken to Illinois by the late Hon. E. E. Chester of Champaign County, Ill., over fifty years ago and since then many strains and varieties have been started from this, one of the oldest known varieties of dent corn.

The True Improved Leaming which we offer is a pure, fixed, and distinct variety, having been bred for earliness of maturity, size, shape and color, also for the amount of grain that each ear will produce and in doing this the fact is brought out that the True Leaming is second to none (save our Eureka) in the amount of silage that can be grown per acre.

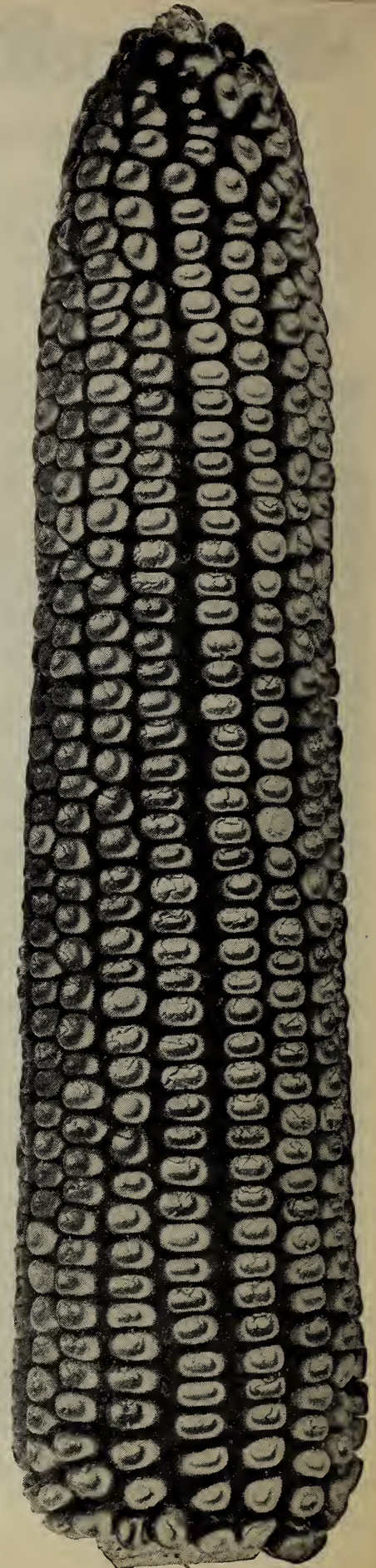
While Leaming corn is not grown extensively in our New England States to maturity, it is perhaps grown for silage to a greater extent than any other dent variety except our Eureka. It ranks as one of the early dent corns, has a very heavy stalk growing twelve or thirteen feet high and very leafy. The ears are eight to ten inches long, filled with medium sized but deep kernels which when dry perhaps approach more closely in hardness the flint type than any other dent corn.

Price: Pk. \$1.00, bu. (56 lbs.) \$3.75, 10 bushels or over \$3.50 per bu.

All prices on corn include bags.



Longfellow



Leaming



## Dent Corn for Fodder and Ensilage

### ROSS' IMPROVED GOLDEN DENT

This is one of the best and most reliable cropping yellow dent corns in cultivation. It makes a large sized ear, with a small cob; the grains are deep and are a very bright golden yellow color. It is very robust and withstands injury by severe weather or other unfavorable conditions better than most other sorts. The grain matures evenly and is almost always marketed in a very bright condition, each stalk produces two to three ears. We strongly recommend this variety as a dent corn for grain.

Our grower writes ut that the seed corn which we offer has matured in less than 110 days this past season.

Price: Pk. \$1.25, bu. \$4.50, 10 bu. or over \$4.25 per bu.

### MINNESOTA NO. 13

This dent corn has been a surprise to its users on account of its extreme earliness. The ears are not as large as some other varieties, but its large production of ears makes it a heavier yielder than most others.

The ears ear of handsome appearance bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels, plump and of good color.

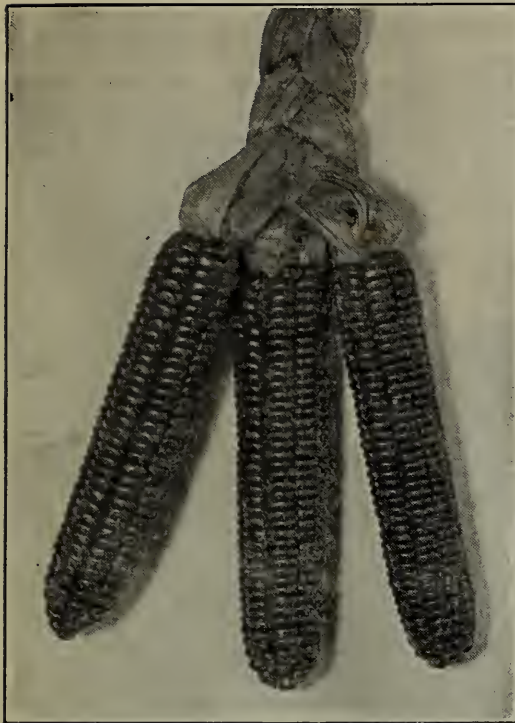
Minnesota No. 13 thoroughly matures in ninety days when planted on favorable soil and in a good location, but ninety-five to one hundred days places it out of danger under average conditions. It may be planted as late as the second week in June and yet safely mature a crop.

Price: Pk. \$1.00, bu. \$3.75, 10 bu. or over \$3.50 per bu.

### WHITE CAP YELLOW DENT

Nearly as early as the Pride of the North with larger ears. The introducer says he will guarantee this corn to mature in ninety to ninety-five days from planting and to produce a larger crop on poor soil than any other variety. Stalks eight to nine feet high, with an abundance of foliage. Ears about eight inches long, sixteen or eighteen rowed, and well filled with deep kernels, the outside ends white, the balance light yellow which gave it the name "White Cap." The early and great production of ears and abundant foliage should make this a popular variety with those who desire ears well advanced toward maturity at the season for cutting for the silo.

Price: Pk. \$1.00, bu. \$3.75, 10 bu. or over \$3.50 per bu.



Red Top Farm White Flint Corn

### SWEEPSTAKES PEDIGREE

This is a Western Yellow Dent Corn which has also been giving excellent results as an ensilage variety in New England. Sweepstakes is of very rank growth, the ears are large and well filled with kernels somewhat broader and larger than the Leaming.

Our stock is from the introducer and has been carefully selected and cleaned, insuring a very strong germination.

Price: Pk. \$1.40, bu. \$5.00.

### KING OF THE EARLIEST

This dent variety, a selection from the Pride of the North, made by the originator of that variety, is from ten days to two weeks earlier, which we think makes it safe for planting in this latitude for the purpose of maturing grain. The cob is small and although the ears are not long the kernels are very deep and the yield is large. We may say here that more attention is being given in the East to the dent varieties for growing for grain than formerly and they are in a few localities grown almost to the exclusion of the flint type, the growers claiming a much larger yield from the dent. Pk. \$1.00, bu. (56 lbs.) \$3.75.

### PRIDE OF THE NORTH

An early dent variety, which has been grown in the East to some extent for grain and to a greater for ensilage. Although not of as rank growth as other varieties of this type, it is on account of its early production of ears popular with some for the latter purpose, especially with those having cold clayey soil. Pk. \$1.00, bu. (56 lbs.) \$3.75.



Ross' Improved Golden Dent





## De Lue's Golden Giant Sweet Corn

Its larger and better.

In the year 1915 DeLue's Golden Giant was exhibited at the annual fall show of the Massachusetts Horticultural Society and was awarded a diploma of merit as being a distinct advance over the popular Golden Bantam. At the annual show a year later, the above society awarded it a silver medal, the first of its kind awarded by that society for sweet corn in 67 years. Each year since then it has been awarded first prize by said society at its annual fall exhibition.

Up to the present time the introducer has been selecting ears of greatest length, with diameter of tip and butt as nearly alike as possible, with the rows of kernels running straight from one end to the other, and with the greatest depth of kernel and smallest diameter of cob, thus insuring the greatest proportion of grain to cob. The ideal ear has from 14 to 18 rows. Golden Giant has reached as high as 22 rows.

Much attention has been paid to the characteristics of the plant growth. Our grower has been constantly on the watch for the following points:

Smallest and stoutest stalk that is capable of carrying a large number of large ears, for the reason that a short stalk matures more quickly and leaves more moisture and nourishment for the production of the grain. An abundance of large foliage, for it is through the action of the sun upon the leaves that the plant grows.

Ears formed low down on the stalk, for the plant is less apt to be damaged by the weight during wind and rain storms.

Husks thick and long so as completely to cover the ends of the ears for protection from birds, worms and smut.

A distinguishing color, which in the Golden Giant is a rich purple on the stalk, leaf and husk in about one-third of the plants, and an admixture of purple and green in the balance. This makes substitution impossible, for no other sweet corn plant in the world has this color.

The most particular attention has been paid, however, to the quality, for earliness and great size would count for nothing without this crowning virtue. It is because of the extreme tenderness, combined with that exquisite rich sugary flavor, that the Golden Giant has become the standard of perfection for sugar corn the world over, and when you consider that its admirers report it is one to two weeks earlier, and two to three times as large as its own parent, the Golden Bantam, of better quality, deeper color and more productive, you may be sure that it has well earned its title.

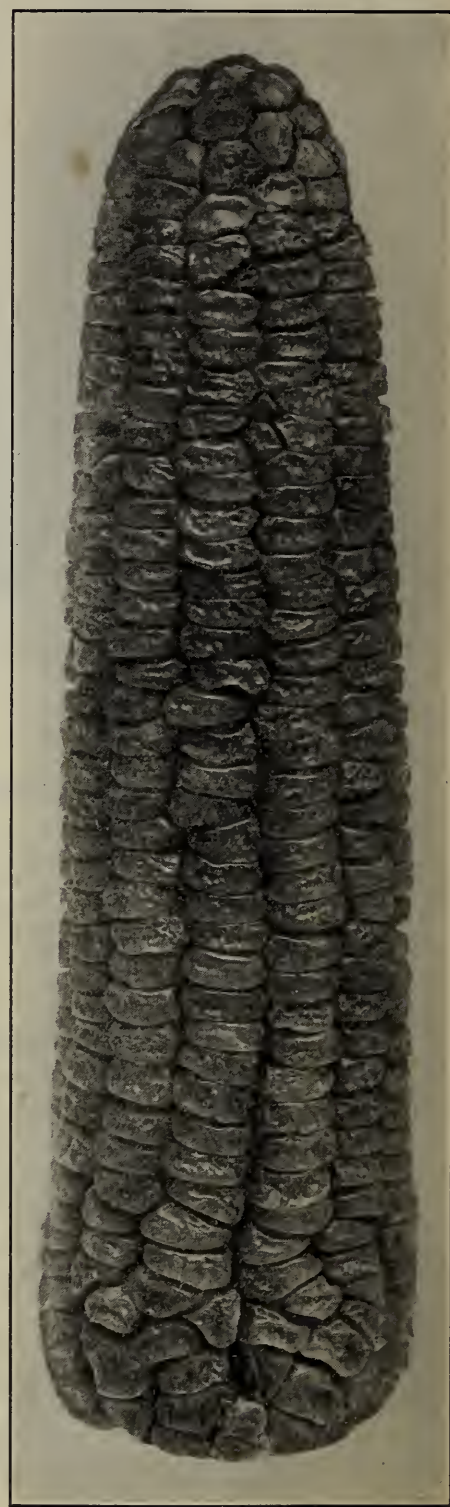
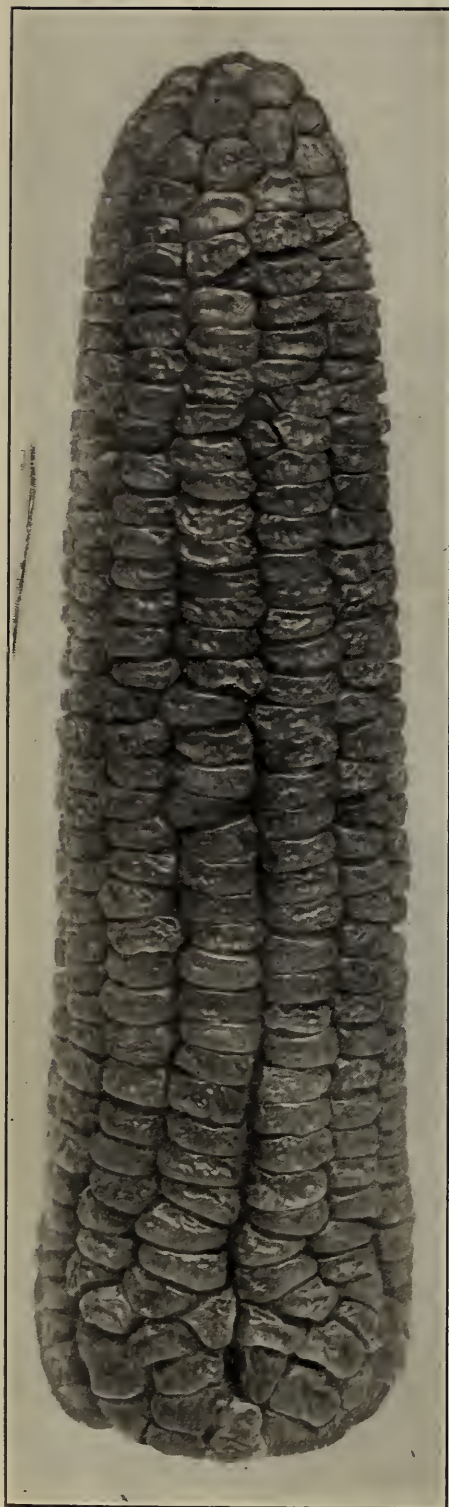
DeLue's Golden Giant excels all other early varieties in size, productiveness and quality, and all the late varieties in quality and early maturity. It is the one corn for the home or market gardener who wants the greatest amount of highest quality corn in the shortest period of time from the smallest piece of land.

The illustrations show full sized ears of DeLue's Golden Giant Sweet Corn.

The DeLue's Golden Giant which we are offering is produced direct from seed obtained from the originator and has been grown well apart from all other varieties. It has proven to be a very prolific variety, producing a large proportion of twin eared stalks.

Price: Pkt. 10 cts.,  $\frac{1}{4}$  lb. 30 cts.,  $\frac{1}{2}$  lb. 50 cts., lb. 85 cts.

The best Sweet Corn ever offered.







# EVERYBODY KNOWS ROSS' SEED GROWS



## Sweet Corn

2 Pounds will plant about 200 hills, 10 to 12 pounds to the acre

We pay postage on one pound or less; for larger quantities by parcel post remit postage. See inside front cover.

Sweet Corn should not be planted until ground is warm, and can not usually be safely planted in this latitude much before the middle of May. The small, early varieties may be planted in the garden as close as 2½ by 2 feet, but in the field, are generally planted 3 by 2 or 2½ feet. In the small garden, however, a more economical use of space can be made and the product secured a little earlier by making rows several feet apart, planting in the intervening space any early, low-growing crop like radish, spinach, or lettuce, and following this with a second crop of cucumbers for pickles, winter squash, celery or turnips, the corn ripening in time for removal of the stalks before they greatly interfere with the growth of the second crop. The later and larger varieties require more room. Corn thrives best on warm, rich soil and succeeds only when given frequent but shallow cultivation. But three stalks should be allowed to grow to a hill.

To have the finest Sweet Corn it must be picked in just the right condition, that is, when the skin of the grain breaks at the slightest puncture. It will be of inferior quality if it is either a few days too old or too young.

### GOLDEN BANTAM

A Favorite With All Who Have Grown It

Golden Bantam is becoming so increasingly popular that it has been almost impossible for those who grow it to keep up to the demand. It has gained such a nation-wide reputation that many summer hotels feature it by name. It is fast making new friends every season. Golden Bantam is dwarf, the stalks usually are 4 to 5 feet high and the foliage is short, allowing it to stand closer together in the small garden and thus produce a large crop on a small area.

When Golden Bantam is ready for use it is a rich, creamy yellow, which deepens to an orange-yellow as it ripens. We especially recommend Golden Bantam for our New England climate, in fact, for any climate where sweet corn can be grown. It may be used as a first early and if planted every ten days from the end of May until the tenth of July a continuous supply of the finest sweet corn may be had the entire summer.

For earliness Golden Bantam ranks ahead of those varieties such as the White and Red Cory, which have so long been used as extra early.

Regarding flavor, Golden Bantam stands in a class by itself. It is deliciously distinct and superior to any other sweet corn, proof of this is the fact that it has a decided preference in the markets, in the restaurants and hotels and in the home, where those who can grow it in the garden have the privilege of enjoying the best "Sugar Corn" it is possible to obtain. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

### GOLDEN CREAM

This sweet corn is of California origin and the result of crossing the Golden Bantam on the Country Gentleman. As indicated by the illustration the Golden Cream resembles the Country Gentleman in appearance, having the same irregular rows, and has also the deep-pointed kernel and slender cob of that variety, otherwise it is entirely distinct, being of dwarf habit in growth, having an ear about the length of the Golden Bantam, and differs from the Country Gentleman in time of maturity, being very early.

The Golden Cream is of unsurpassed quality, having the peculiarly rich flavor of the Golden Bantam and the tenderness of the Country Gentleman.

It is remarkably productive, bearing very generally two or three ears to the stalk, and sometimes four. The color, when at the stage suitable for eating, is a rich cream, cooking to a light golden yellow.

The combination of good qualities of the varieties which produced the Golden Cream insuring a reasonable degree of certainty that the product would be of more than ordinary quality, its earliness and productiveness, should induce a trial of it by all who cultivate sweet corn. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

### GOLDEN DAWN

It ripens with the Early Crosby and grows about 5½ feet high; very productive, having two or three good ears on a stalk. The ears are eight to twelve rowed, filled out to the very end. The color is a golden yellow and the quality is unsurpassed. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.



Golden Bantam



Golden Cream





## Sweet Corn—Continued



Early Crosby

**BLACK MEXICAN.** A popular variety; until the introduction of the Golden Bantam, the sweetest of all. Ears of medium size; kernels large, when ripe bluish black, but at proper stage for cooking, the color shows but little if at all. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**CHARLEVOIX.** An early or intermediate, yellow grained sweet corn of distinctive merit. Ears about seven inches long, usually twelve rowed and when in condition for use are light creamy yellow in color. The grain is rather short, very sweet and tender and is unsurpassed in quality. In season it is a few days later than Golden Bantam, but remains in condition much longer than that variety. An excellent sort both for the home and the market garden. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**COUNTRY GENTLEMAN.** Medium size, with irregular rows of very deep and slender kernels and small cob. Sweet and tender, not surpassed in quality by any other variety with white kernels. Plant very productive, often yielding three and sometimes four good ears. Plant liberally, as the kernels being much shriveled, seldom germinate so well as those of the regular type. Ready for use a little before the Stowell's Evergreen. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**EARLY CROSBY.** New England Strain. This has been for years the most popular second-early strain in New England, and is largely grown elsewhere. Ears are intermediate in size between those of the first-early sorts and the Kendel's Early Giant, especially attractive and distinct, having rather small, almost square kernels packed so closely on the cob, that there is no space between the rows, as with other varieties; has always twelve or more rows and tip is completely covered. Not only an unusually attractive ear, but of a size preferred by many, and corn is superior quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**EARLY MAYFLOWER.** A new extra early white variety with large well-filled ears; very sweet and tender. Ready for the table 4 or 5 days ahead of Red Cory. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**EARLY RED CORY.** The most popular early variety. Ears 6 inches long; kernels broad, from reddish amber to nearly white; cobs mostly red. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**EARLY WHITE CORY.** A selection from the Red Cory, both kernels and cob white; otherwise identical. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**FERRY'S EARLY EVERGREEN.** Ears large, with sixteen to twenty rows. Equal in quality to the Stowell's Evergreen; one to two weeks earlier. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**HOWLING MOB.** This corn originated in Ohio and it became so popular it was given the above name. The endeavor of the originator of this corn was to get as large an ear as possible, early in the season and of sweet flavor. This corn is of strong and vigorous growth, from 4½ to 5 ft. high and has abundant foliage and generally produces two ears to each stalk. Ears measure 7 to 9 inches in length with 12 or 14 rows. The corn is nearly white, usually covered with a heavy husk which extends well over the tip of the ears which affords a good protection from worms and birds. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**KENDEL'S EARLY GIANT.** A second-early variety, following closely the small-eared, early kinds, but having ears of sufficient size to warrant its use for main-crop, usually twelve-rowed. Of good quality; productive. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**MAMMOTH WHITE CORY.** Differs from the White Cory in having considerably larger ears, and in that they are twelve-rowed. Ripens nearly as early and is thought by some to be of better quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**MARBLEHEAD MAMMOTH.** Ears of the largest size, having twelve to sixteen rows of kernels of more than average size, sweet and tender. Preferred by some to Evergreen for fodder and matures its crop earlier. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**POCAHONTAS.** One of the earliest varieties, similar to White Cob Cory; ears are large, evenly and compactly filled with tender white kernels of very fine quality for a first early variety and runs very uniform as to type and productiveness. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**POTTER'S EXCELSIOR, or SQUANTUM.** First named Potter's in Boston market, later named Squantum in Rhode Island. Ears of medium size. Matures soon after the second-early sorts. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.



Country Gentleman





# EVERYBODY KNOWS ROSS' SEED GROWS



## Sweet Corn—Continued

**QUINCY MARKET.** One of the sweetest early varieties. The ears closely resemble the Crosby, but are larger and mature earlier. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

**STOWELL'S EVERGREEN.** The best known and most largely planted of all the varieties. The Stowell's Evergreen is hard to beat and for a long time to come many will have it in preference to any other sort. This corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long keeping qualities. It is the standard late sort. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

## White Rice Pop Corn

### FOR PLANTING

This variety of pop corn is an old and tried corn. It is the heaviest yielder of all and of very good quality. The stalks grow from 5 to 6 feet tall and produce two to three ears each. The ears are about 6 inches long and covered from butt to tip with long, hard, flinty kernels. When popped the kernels are very large and tender. We recommend this variety especially for its large yielding ability and its popping qualities. Price, lb. 20 cts., 10 lbs. or over 18 cts. per lb.

## Shelled Corn

### TANAGER BRAND FOR POPPING

The best pure white pop corn, in fine condition for popping. Shelled corn in one pound packages.

Price, lb. 18 cts.; 10 lbs. or over 16 cts. per lb.

**WHITE RICE POP CORN** on the cob. Price, lb. 15 cts.

## Peanuts

**SPANISH** for a long time has been the best the best variety. An early, heavy bearer; bushes growing close, so very easily cultivated. Grains or nuts are smaller, but much sweeter and finer flavored than the larger sorts. Best re-cleaned seed stock. Pkt. 10 cts., lb. 40 cts. postpaid by express, 10 lbs. or more 35 cts. per lb.

### SEEDS USED FOR FLAVORING AND PICKLING

	Oz.
Caraway .....	\$ .20
Celery .....	.10
Coriander .....	.20
Dill .....	.10
Fennel .....	.20
Mustard .....	.10



Early Mayflower



Rice Pop Corn

### HERBS

Anise .....	\$ .10
Caraway .....	.10
Catnip .....	.10
Coriander .....	.10
Dill .....	.10
Fennel .....	.10
Lavender .....	.10
Marjoram, Sweet .....	.10
Sage .....	.10
Savory, Summer .....	.10
Thyme .....	.10

### BIRD SEEDS

Best re-cleaned; for feeding only

	Pound	100 lbs.
Canary .....	\$ .12	\$10.00
Hemp .....	.15	12.00
Kaffir Corn .....	.10	5.00
Lettuce .....	.40	38.00
Millet, Mixed .....	.12	10.00
Peas for Pigeons .....	.12	9.00
Rape .....	.12	10.00
Sunflower Striped .....	.12	10.00
Postage extra.		

## Betsy Ross Victory Garden

17 large packages of *highest quality* vegetables, **\$1.00** enough for the home garden, postpaid, for .

- |  |                                    |
|--|------------------------------------|
| 1 pkt. Beans, Sure Crop Black Wax                  | 1 pkt. Spinach, Thick Leaf         |
| 1 pkt. Beet, Crosby's Egyptian                     | 1 pkt. Sweet Corn, Golden Bantam   |
| 1 pkt. Carrot, Danvers Half Long                   | 1 pkt. Onion, Yellow Globe Danvers |
| 1 pkt. Cabbage, Copenhagen Market                  | 1 pkt. Turnip, P. T. White Globe   |
| 1 pkt. Cucumber, Early White Spine                 | 1 pkt. Swiss Chard                 |
| 1 pkt. Lettuce, May King                           | 1 pkt. Beans, Green Pod Stringless |
| 1 pkt. Peas, Sutton's Excelsior                    | 1 pkt. Squash, Summer Crookneck    |
| 1 pkt. Radish, Scarlet Globe                       | 1 pkt. Melon, Rocky Ford           |
| 1 pkt. Squash, Blue Hubbard (6 Collections \$5.00) |                                    |

Each variety the best of its kind. All should be planted in every garden. Address, enclosing \$1.00,

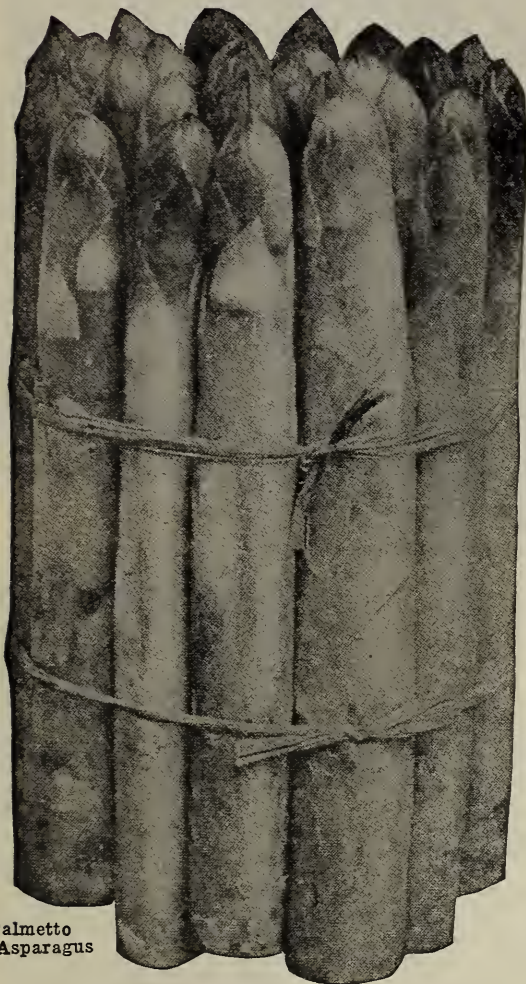
**ROSS BROS. CO., Front Street, Worcester, Mass.**







## GENERAL LIST OF VEGETABLE SEEDS



Palmetto  
Asparagus

All prices in this catalogue are based on the lowest market price at time catalogue goes to press but they are subject to market changes. This applies to both advance and decline.

### ASPARAGUS

An ounce will sow about 60 feet of drill, and produces 200 or more plants.

To grow asparagus from seed, sow as early as ground can be worked. Make the soil rich and sow in drills one foot apart and an inch or more deep. If the bed has good care, the roots may as well be transplanted to the permanent bed early the following spring as to wait another year, as is generally done. The soil should be thoroughly and as deeply worked as possible and can hardly be made too rich. In the field, the rows should be from four to six feet apart, but in the garden where the cultivation is to be done by hand the rows may be as close as two feet apart. Make broad trenches 8 inches deep, and if the roots are wellspread, the crown will be 6 inches below the level. Cover with but an inch of soil at time of setting, filling the trench gradually as the plants grow. The plants should have frequent cultivation and yearly heavy applications of manure or fertilizer. The third year from setting, two or three cuttings may be made; after that, all that are possible until time for early peas.

**WASHINGTON ASPARAGUS.** It is a rust-resistant, vigorous, high yielding strain of giant asparagus, it represents the best in thousands of plants tested in a search lasting ten years. It is of rapid growth and large size, both of which qualities indicate tenderness. Our supply of both seed and roots is limited.

Seed, Pkt. 20 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.

Selected 2-year roots. Doz. 40 cts., 50 \$1.50, 100 \$2.75 postpaid. By express, 100 \$2.50, 1000 \$22.50.

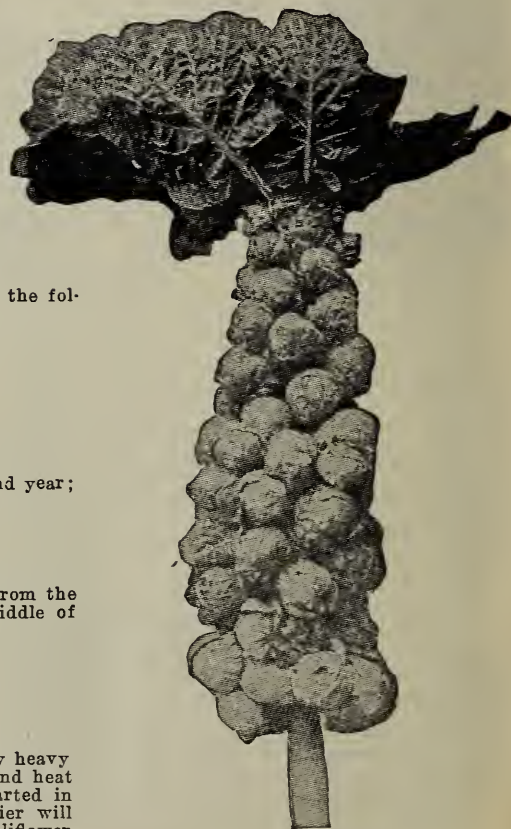
**COLUMBIAN MAMMOTH WHITE.** Large stalks; clear white until 3 or 4 inches high. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**GIANT ARGENTEUIL.** Popular in France on account of its large, thick, green stalks, being a special favorite in the Paris markets. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**PALMETTO.** Early and productive. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

### ASPARAGUS ROOTS

The easiest way to obtain an Asparagus bed, is to set out the roots. It takes 3 years to establish one from seed, but with our large, two year roots a bearing bed may be had in 2 years.



Brussels Sprouts

We can furnish strong two-year old roots of the three varieties listed, 50 in a bunch, at the following prices: Per 50, 75 cts., postpaid. By express, per 100, \$1.20; per 1,000, \$11.00.

**COLUMBIAN MAMMOTH WHITE.**

**PALMETTO.**

**GIANT ARGENTEUIL.**

### ARTICHOKE

**GREEN GLOBE**—Perennial, large-flowering heads, cooked like Asparagus. Matures second year; not hardy in the North. Pkt. 20 cts.,  $\frac{1}{2}$  oz. 55 cts., oz. \$1.00.

### BRUSSELS SPROUTS

A very hardy plant of the cabbage family, growing from 2 to 3 feet high, producing from the sides of the stalk numerous small heads about 2 inches in diameter. Sow about the middle of May, and treat generally as directed for cabbage.

**IMPROVED HALF-DWARF.** Pkt. 10 cts.,  $\frac{1}{2}$  oz. 30 cts., oz. 50 cts.

### BROCCOLI

**ST. VALENTINE BROCCOLI** has a clear white head like a cauliflower, surrounded by heavy leaves which may be tied to further blanch the heads. It stands cold and wet well, and heat better than any cauliflower. Be sure that the plants have plenty of water. Seed started in June will make heads which will be in good condition all winter. Seed started earlier will bring heads in for summer. Remember that Broccoli takes longer to mature than Cauliflower and so allow two or three weeks more. Pkt. 15 cts.,  $\frac{1}{2}$  oz. 55 cts., oz. \$1.00.



## BEANS

2 lbs. will plant 100 feet of drill. 60 to 90 lbs. will plant an acre.

Beans succeed best in warm, light soil of at least average fertility. In this latitude it is not usually safe to plant much earlier than the middle of May. If planting is made earlier and is followed by especially wet or cold weather, the planter should not blame the seedsman if beans fail to germinate. Plant the dwarf varieties in drills 2 to 3 feet apart, about 2 inches deep, and thin plants 4 to 6 inches apart. Give frequent, shallow cultivation until time of blossoming.

### DWARF WAX OR BUTTER BEANS

**BLACK WAX, PROLIFIC.** One of the best for a home garden, perfectly stringless and of excellent flavor. Pods are medium size, round and of a clear waxy white color. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**BRITTLE WAX.** One of the best early varieties. The pods are round and long, often six inches in length, and a rich, golden yellow; stringless and tender. When ripe makes good shell bean. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**CURRIE'S RUST-PROOF WAX.** It has been claimed that this medium early bean is absolutely rust proof and we have found it as nearly rust proof as any wax-podded bean. The plants are very vigorous, hardy and productive. The pods are five to six inches long, nearly straight, broad and flat; color, golden yellow. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.



Improved Golden Wax Beans

We send one pound or less postpaid; for larger quantities by parcel post postage must be sent. See inside front cover.

**DAVIS WHITE WAX.** Vines of vigorous habit, fairly productive, not especially subject to blight or rust. Pods longer than those of most other varieties, always straight, flat, white, wax-like and attractive. If picked while young, the pods are tender and stringless, but, later, are hardly equal in quality to those of some less hardy sorts. Seeds white, kidney-shaped, excellent for baking. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**GOLDEN-EYED WAX.** Next to Horticultural Wax in its freedom from rust, and superior to that in quality though not equal to most others in the list. Pods of good length, flat, straight, waxy yellow and attractive. Popular with market-gardeners. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**HODSON WAX.** A new and distinct variety, about two weeks later than others, but surpassing most others in its combination of large, handsome pods, good quality and immunity from rust. It is also above the average in productiveness. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**IMPROVED GOLDEN WAX.** An old, well-known and popular variety of excellent quality. Pods flat, long, golden yellow. One of the earliest and best dwarf wax varieties for the private garden. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**NEW KIDNEY WAX.** An improvement on that excellent variety, Wardwell's Kidney Wax; more productive, less liable to rust or blight, while equal in quality. Pods are flat but very thick, 6 to 7 inches long, entirely free from strings and tough fiber. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**ROUND-POD KIDNEY WAX.** Of unsurpassed quality. One of the best for the home garden and very desirable for market where round-podded varieties are popular. Pods are long, very white and wax-like; uniformly perfect in shape and vine is very productive. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**SURE-CROP STRINGLESS WAX.** An absolutely stringless, rust-proof, wax-pod, bush bean. Pods seven to seven and a half inches long, about half an inch in diameter, and a beautiful rich yellow color. Plant hardy, extremely prolific, in fact it bears more freely than any other variety of recent introduction. Just the bean for the family garden. On account of its size it is always a ready seller on the market. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**WARDWELL'S KIDNEY WAX.** A very popular variety, especially in some localities, because of the large size, handsome appearance and excellent quality of the pods. The pods are flat, broad, and usually five or six inches long, of delicate, waxy yellow color, stringless and brittle. Very widely used by market gardeners. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**WEBBER WAX.** A distinct type that shows plenty of breeding and selection. Early, resistant, and a very heavy yielder of large, oval pods which snap, without strings. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

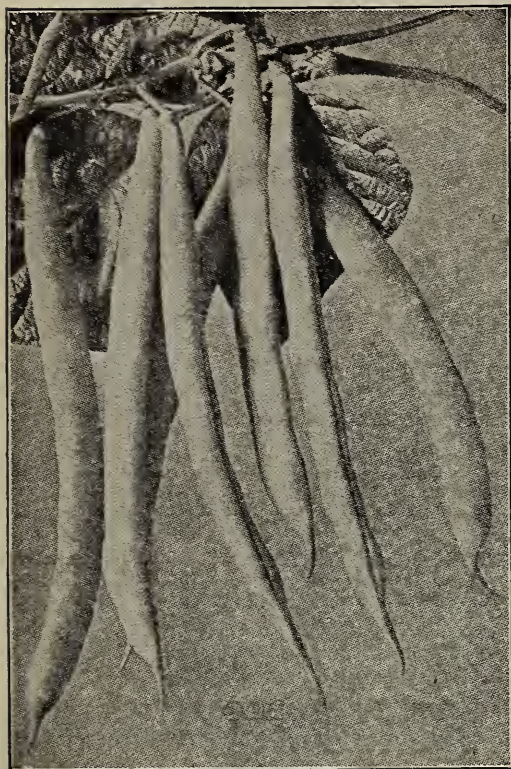


Sure Crop Black Wax





We send one pound or less postpaid; for larger quantities by parcel post, postage must be sent. See inside front cover.



Prolific Black Wax Beans

## Beans Dwarf or Bush Green Podded Sorts

**BOUNTIFUL.** Vine unusually thrifty, rarely affected by blight, bears early, profusely and for a long time. Pods large, flat but thick and meaty, stringless and tender. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**BOSTON SMALL PEA.** More largely used than any other variety for baking. Choice selected. Pkt. 10 cts., 1 lb. 20 cts., 2 lbs. 35 cts., 10 lbs. or over 16 cts. per lb.

**BURPEE'S GREEN POD STRINGLESS.** A very desirable dwarf green podded snap sort for the home garden and largely grown for the market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, larger than those of Red Valentine, but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Seed of medium size and length, yellowish brown. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**DWARF HORTICULTURAL.** Pods thick, broad, of medium length, yellowish green splashed with red when at the stage of fitness for green shell beans and are then very attractive. Beans are large, oval, easily shelled and of fine quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**FRENCH'S HORTICULTURAL.** This is a bean of the horticultural type which has been grown quite extensively in some localities by the Market Gardeners for a number of years. The vines are compact and of upright growth; almost always sending out runners to a height of one and one-half to two feet, but do not climb a pole and are not of sufficient length to affect the bean in any way. The pods when ready to use are a yellowish green splashed with a bright crimson. Very prolific. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**EARLY RED VALENTINE.** An old favorite. Vine hardy and productive; pods round of medium length, thick, tender and of fine flavor. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**EARLY LONG YELLOW SIX WEEKS.** The vines of this variety, known also as Long Yellow Six Weeks, are large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps. This sort is early maturing and a fine shipper. Seed medium sized, long, kidney shaped, light yellow with small brownish circle about the eye. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**GIANT STRINGLESS GREEN POD.** Makes an excellent succession to Burpee's Stringless Green-Pod when planted at the same time. The plants are of strong growth; pods lightly curved, quite meaty, being broadly rounded and saddle-backed; brittle and stringless at all stages. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**GODDARD, or BOSTON FAVORITE.** Vine very large, vigorous and productive. Pods long, larger than the Dwarf Horticultural, similar in color and marking. Beans large, kidney-shaped, of excellent quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**IMPROVED YELLOW EYE.** One of the best sorts for baking; extremely productive and of superior quality. Pkt. 10 cts., 1 lb. 20 cts., 2 lbs. 35 cts., 10 lbs. or over 16 cts. per lb.

**LOW'S CHAMPION.** Vine of rank vigorous habit, seldom affected by blight or mildew; productive; pods large and well filled. Beans large, oval, red, of finest quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**RED KIDNEY.** Large red kidney-shaped beans of excellent quality. The old-fashioned baking bean. Pkt. 10 cts., 1 lb. 20 cts., 2 lbs. 35 cts., 10 lbs. or over 16 cts. per lb.

## ENGLISH BROAD BEAN

**BROAD WINDSOR.** An old-fashioned English shell bean. This bean is very hardy; it should be planted as early as the ground will permit, three or four inches deep in rows three feet apart, and plants four feet apart in row. Dry beans very large and yellowish green. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00.

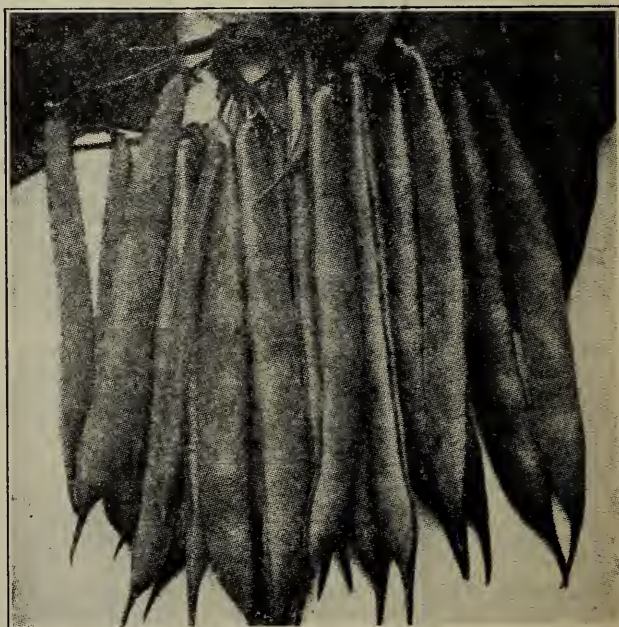
## SWEDISH OR BROAD SWORD POLE BEAN

The pods of light green color from eight to twelve inches in length and about one inch in width and retain their rich, tender, stringless qualities until nearly ripe. Pods contain eight to ten medium size, flat, white beans which are excellent for shelling. Planted about June 1st, this bean comes into bearing about Aug. 1st, and will continue until frost. Vines have grown the past season to a height of 25 ft. and the yield of pods very heavy. Oz. 10 cts.,  $\frac{1}{4}$  lb. 35 cts.,  $\frac{1}{2}$  lb. 60 cts., 1 lb. \$1.00.

MULFORD CULTURE FOR BEANS SEE PAGE 8.

## BEAN POLES

We can supply bean poles for your garden—fine, straight, cedar poles, 7 to 9 feet long, delivered to express or freight depot, at 85 cts. per doz.



Bountiful Beans





## Dwarf Lima Beans

1 lb. will plant about 50 hills.

The dwarf lima class cannot be recommended too highly. The beans can be grown and gathered much more easily than the pole limas, as the vines require no support. They can also be grown closer together than those, are equal in quality to pole limas and as a rule are earlier maturing.

Limas require a longer season for maturing than other garden beans. Do not plant till the ground is dry, weather warm and danger of frost is over. If possible select rich, light soil. Plant in drills two to three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two or three feet apart one way and two to two and one-half the other and plant four to six beans in a hill. Hoe often but only when the leaves are dry.

**HENDERSON'S BUSH LIMA.** A bush of the Sieva Lima; beans small but vine is productive and bears early. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**BURPEE'S BUSH LIMA.** A bush form of the Large Lima which it closely resembles and approaches in size. Very popular. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**BURPEE'S IMPROVED BUSH LIMA.** A distinct strain. The earliest, largest and the best of all large limas. This new strain differs from the popular Burpee's Bush Lima in bearing uniformly much larger pods, producing more beans, while both pods and beans are much larger and thicker. While the beans are as large as those of the Large Lima, the crop of the Improved is ready for gathering from eight to ten days earlier. In quality, the beans are equal to any, being thin-skinned, juicy and of fine flavor. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**FORDHOOK BUSH LIMA.** The Fordhook Bush Lima Bean is not a selection made by man from the Dreer's Bush Lima, but created by nature, a single sport found in the field of Dreer's or Challenge Pole Lima and has now become one of the leading varieties of Bush Lima Beans. The plant is of stiffly erect habit, the beans are much larger and of superior quality and even when full size are juicy and of fine flavor. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 15 cts., 10 lbs. or over 30 cts. per lb.

## Pole or Running Lima Beans

2 lbs. will plant about 100 hills

These, like the Dwarf Lima, are tender and should not be planted in this latitude much before the first of June, and even then a liberal quantity of seed should be used to be more nearly certain of a uniform stand. Three plants, however, are all that should be allowed to grow in a hill.

**CARPENTERIA.** This is just the lima for the market gardener to grow for main crop. It is early and large, and enormously prolific, without much vine. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**KING OF THE GARDEN LIMA.** Earlier than the Large Lima, and pods are longer and often contain five beans of the largest size. The vine is large and of remarkably vigorous growth and will produce larger pods and bear earlier if only two are allowed to grow to the pole. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**LARGE LIMA.** The old standard variety. Pods are broad, thin and borne in clusters. The vine grows tall, is vigorous but slender. Later in bearing than the preceding varieties. The beans are large and of a greenish tinge which is considered an indication of superior quality. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**SEIBERT'S EARLY LIMA.** The earliest variety; vine vigorous and very productive and continuous so from the first to the last of the season. While the pods are short and rarely contain more than four beans, the total yield compares very favorably with other varieties. A desirable feature of this variety is the ease with which the pods are opened owing to the fact that they are very thin. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

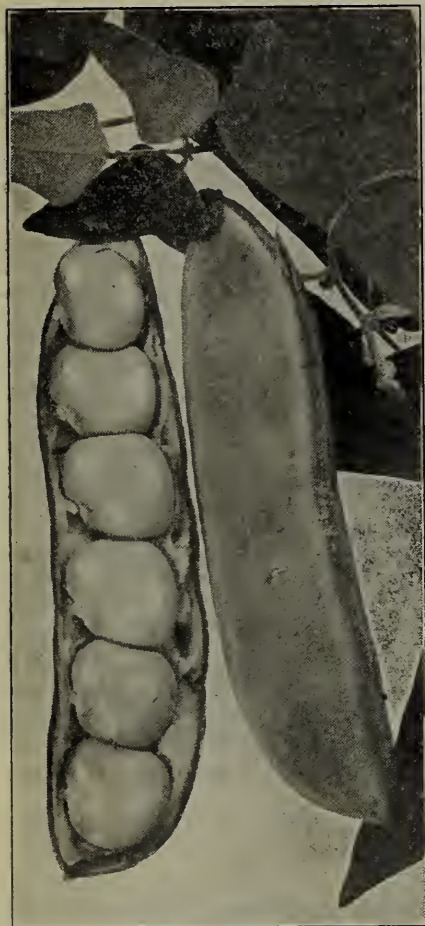
## Beans—Pole or Running—Wax Podded Sorts

2 lbs. will plant 100 to 150 hills.

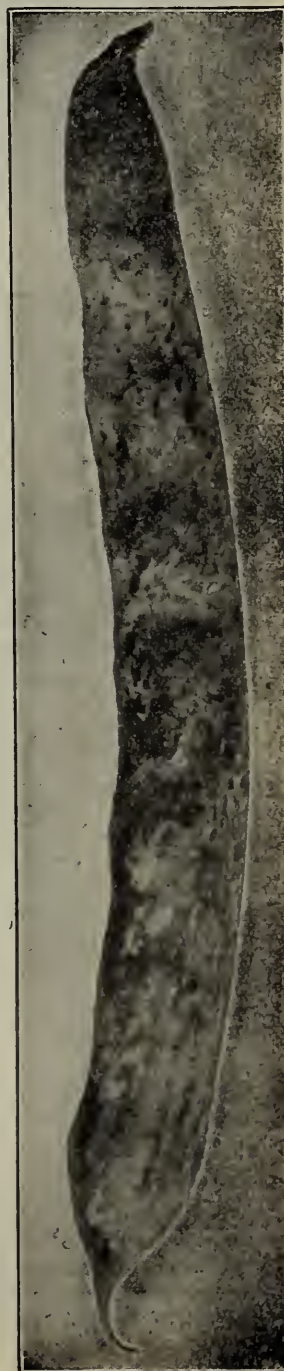
Although pole beans require considerable care and labor, they are when properly grown usually of longer bearing period. Pole beans are more sensitive to wet and extremes of temperature than the dwarf varieties and should not be planted as early. Poles should be set in rows about 4 feet apart, preferably running north and south, allowing about 3 feet between the poles in the row. The safer way is to plant six to eight beans around each pole and thin to three or four plants. Beans should be about 2 inches below the surface and are more generally pressed into the soil, eye down, instead of dropped and covered, as they come up a little sooner planted in this way. Like the dwarf beans they require frequent shallow cultivation.

**GOLDEN CLUSTER WAX.** Pods long, broad, thick and fleshy; borne in clusters, creamy white in golden yellow; of best quality. Pkt. 20 cts., 1 lb. 45 cts., 2 lbs. 85 cts., 10 lbs. or over 40 cts. per lb.

**"KENTUCKY WONDER WAX."** This pole bean is quite similar to the very popular green podded Kentucky Wonder, except that the very long pods are a little broader, and of a waxy golden yellow. These are very attractive, fleshy, stringless and not surpassed in quality. The vine is remarkably vigorous and its earliness and hardness commend the variety as one well adapted for even northern latitudes. The seed even from the most matured crops is usually somewhat shriveled. Like the green podded Kentucky Wonder, this is very productive and we believe it to be generally superior to any other wax podded pole bean. Pkt. 20 cts., 1 lb. 45 cts., 2 lbs. 85 cts., 10 lbs. or over 40 cts. per lb.

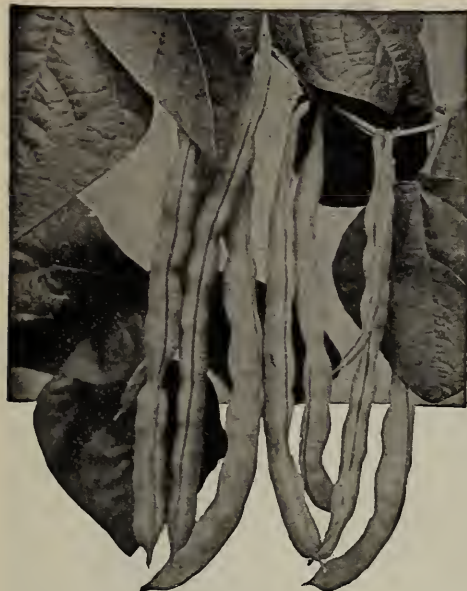


Fordhook Bush Lima Beans



Harlequin Bean





Pole Beans  
Kentucky Wonder

## Beans—Pole or Running— Green Podded

**DUTCH CASEKNIFE.** A favorite with those who prefer white shell beans; beans of medium size, but pods are very long, the yield therefore large. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

**GOLDEN CARMINE HORTICULTURAL.** A strain of the London Horticultural which has the additional merits of being an excellent string bean and as a shell bean of being a week or more earlier. The pods and beans are nearly if not quite as large and beans are equal in quality. Pods, when at the stage suitable for string beans, are light waxy yellow; when ready for shelling, golden yellow, splashed with bright carmine; at both stages very attractive. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

**HARLEQUIN.** Earlier, more productive, and with much longer and more attractive pods than the well known London Horticultural or Speckled Cranberry, also hardier and a more reliable cropper. The large oval beans are of the highest quality, either shelled or dry. The vines are vigorous, bearing pods that are six to seven inches long, striped or splashed with a deeper and more brilliant red than the London Horticultural. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

**KENTUCKY WONDER, or OLD HOMESTEAD.** Pods are borne in large clusters, are of unusual length, nearly round, silvery green; when young, crisp, entirely stringless, of fine texture and flavor. Vine bears early and is very productive. Used only as a string bean. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**LONDON HORTICULTURAL, or SPECKLED CRANBERRY.** Pods short, broad, yellowish, streaked with bright red. Beans in general appearance identical with Dwarf Horticultural, of about the same size, more nearly round; of the best quality. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

**SCARLET RUNNER.** Largely grown as an ornamental climber; its rapid growth and early production of dazzling flowers make it a favorite for covering screens, walls, etc. It is also of excellent edible qualities, but rarely grown for that purpose. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

## BEET An ounce will sow about 100 feet of drill, 5 or 6 pounds required for an acre.

The beet thrives best in deep, rich, but rather light soil. Sow in drills about 15 inches apart and one inch deep. Make the soil firm over the seed. For early use, sow soon as the ground can be worked; for fall use, in May; for winter, from the 20th of June to the middle of July, according to the variety. Thin plants to 4 or 5 inches apart. Give frequent shallow cultivation.

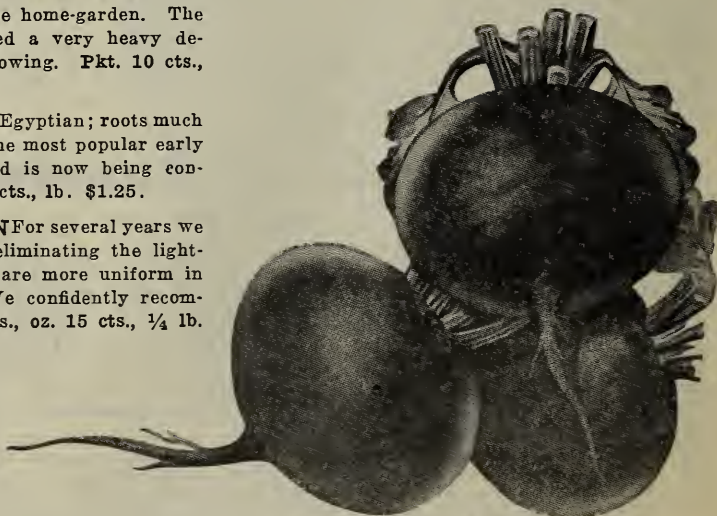
**EARLY MODEL BEET.** A fine selection of blood-red Beet, extremely smooth, fine rich color and desirable shape, and makes a rapid growth, maturing very early. It is globe-shaped, the color of flesh a rich blood-red and of most excellent quality, being sweet, tender and free from coarseness. The tops are quite small, making it a fine variety for forcing in hotbed, and it retains all the good qualities either when grown under glass or outside. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**EARLY WONDER.** One of the earliest and most perfectly shaped Beets. Its beautiful, deep blood-red color, globular-shaped roots, make it valuable for the home-garden. The attractive appearance, uniform size, shape, and color, have created a very heavy demand for this variety. It is grown very extensively for late fall sowing. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**CROSBY'S EARLY EGYPTIAN.** An improved form of the Early Egyptian; roots much thicker and more regular. Nearly as early and of better quality. The most popular early variety for market throughout New England, if not elsewhere, and is now being considerably used for last sowing. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**CROSBY'S EARLY EGYPTIAN EXTRA-SELECTED STRAIN** For several years we have given this especial attention and have largely succeeded in eliminating the light-colored, coarse fleshed specimens peculiar to the Egyptian. Roots are more uniform in shape and tops are more even in growth and a little smaller. We confidently recommend it to market gardeners as an unsurpassed strain. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**ROSS PERFECTION.** A strain selected by us as the best early beet for the market gardener. Nearly as early as the Early Egyptian but the roots are much thicker and more regular in shape. By careful selection the coarse-fleshed and light-colored specimens have been practically eliminated. The tops are even in growth and a little smaller than the Egyptian, making it an ideal beet for all uses. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.



Ross' Perfection





## BEET—Continued



Detroit Dark Red

### ARLINGTON FAVORITE.

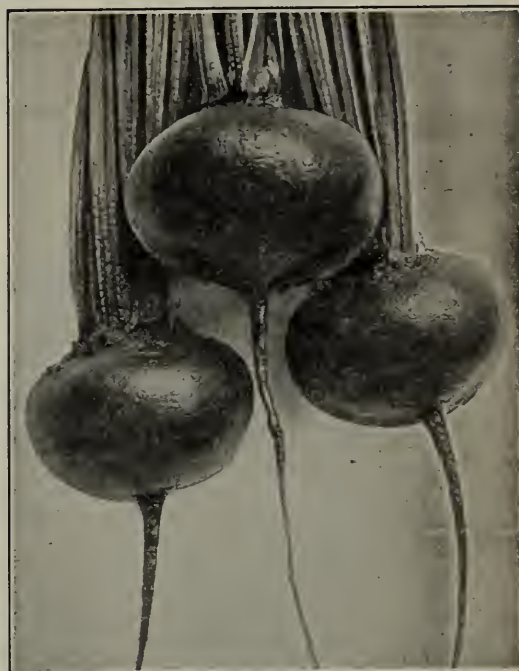
An excellent variety of globular form and deep color, especially desirable to follow the first earlies. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**CRIMSON GLOBE.** Roots perfectly globular, one of the earliest of this shape, flesh dark; skin a shade lighter. Seldom grows over large and is a favorite with some for late as well as early planting. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.25.

**EARLY EGYPTIAN.** The earliest variety; roots flat; deep crimson; top small. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**BASTIAN'S EARLY.** Roots too light-colored to be popular for market, but of finest flavor. Very tender and sweet. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**EARLY ECLIPSE.** An early globe-shaped variety of good quality and deep color. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.



Selected Crosby's Egyptian

**EDMAND'S BLOOD TURNIP.** A standard variety used for both second-early and main crop. Of good quality and keeps well. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**DEWING'S BLOOD TURNIP.** One of the leading main-crop varieties. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**DETROIT DARK RED.** A superior second-early and mian-crop variety rapidly growing in favor for late planting. Tops uniformly small and grow upright so that the rows may be close together. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**SWISS CHARD, or SILVER SEA KALE BEET.** Used for greens only. Until recently but little used in this country, but for the last few years has rapidly increased in favor. Much superior to other beets for greens. Of very rank growth, plants should be thinned to about one foot apart. When the plants have attained full size, the stems and midribs are sometimes cooked and served like asparagus. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.

**SWISS CHARD, GIANT LUCULLUS.** The Swiss Chard, or Spinach Beet, is prepared for the table in the same manner as Spinach; sometimes, however, the mid-rib is prepared like asparagus. Seed planted early in the spring will quickly produce plants from which cuttings may be made all summer, as you can cut right down to the ground, and new shoots will soon spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large curly leaves, with thick, light-colored mid-ribs, which are delicious when cooked and served like asparagus. You should not fail to plant at least one long row in your garden. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

## SUGAR BEETS and MANGEL-WURZELS FOR STOCK FEEDING

1 oz. to 100 feet of drill 5 pounds per acre

Roots of all kinds are highly valuable for stock feeding and are worth more general cultivation than they have had in the past. A liberal feeding of Mangels insures a large flow of milk and healthy condition of the animals. Fifteen or twenty tons per acre is not an unusual yield for any of the large growing varieties. They are easy to cultivate and can be raised almost wholly with horse culture and will respond readily to any kind of fertilizer. A yield of 20 tons per acre is equal to 2 tons of the best Timothy Hay or 65 bushels of corn, but they will produce more milk, and in addition to the feeding value found in protein and fat, you also get a large amount of water, which, to our mind, has a feeding value in any of our field crops.

**GOLDEN TANKARD.** It is one of the best stock beets grown. It has yellow flesh, a very distinct variety, being short with very little tap root and very easy to harvest. Top and neck very small; root ovoid, flesh yellow, zoned with white; an excellent sort. Price: Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.



Swiss Chard





## MANGEL-WURZELS—Continued

**MAMMOTH LONG RED.** This is truly a mammoth, a single root often weighing twenty to thirty pounds. The extra large, long roots are blood-red in color and very nutritious. Enormously productive, yielding, under favorable conditions, thirty to forty tons of roots per acre.

**NORBITON GIANT LONG RED.** Similar to the preceding; has smaller top and neck; flesh scarlet. Price: Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

**ORANGE GLOBE.** Top small, root medium-sized; skin deep orange-yellow, flesh white. Grows almost out of the ground; good for shallow ground easy to harvest. Price: Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

**RIVENHALL GIANT.** This is one of the finest types of the yellow globe mangel in cultivation. The roots are immense size and exceptionally even in shape. The skin is an orange-yellow with a reddish-yellow base. The flesh is white, being firm and fine grain which renders it an excellent keeping variety. It grows fully three-fourths above ground with a very small tap root which makes it well adapted to light soil. Price: Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

## SUGAR BEETS

**LANE'S SUGAR BEET.** A standard variety for stock-feeding. Price: Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  oz. 30 cts., lb. \$1.00.

**KLEIN WANZLEBEN.** This variety is cultivated on a larger scale than any other Sugar Beet. Root is conical, straight and even, large at top and rapidly tapering. Not as large as some of the other sorts but contains the largest percentage of saccharine matter. Price: Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.50.

## CABBAGE

An ounce will produce about 2,000 plants

Cabbage will thrive on any good garden soil but is more successfully grown on deep, strong loam, and new soil is much preferable, as on old land the roots are more liable to be affected by the disease called club-root. Especially should land be avoided upon which, within two years, cabbage, cauliflower, turnips or radishes have been grown.

For the earliest crop seed is usually sown in February or March in hotbeds with only moderate bottom heat, and the plants hardened by gradually exposing them to the night air and transplanted as early as the ground is in suitable condition.

Seed of the second-early, autumn and winter varieties, may be sown in the open ground. If a second crop is desired to follow closely the early crop, seed of some second-early sort should be sown as



Mammouth Long Red Mangel



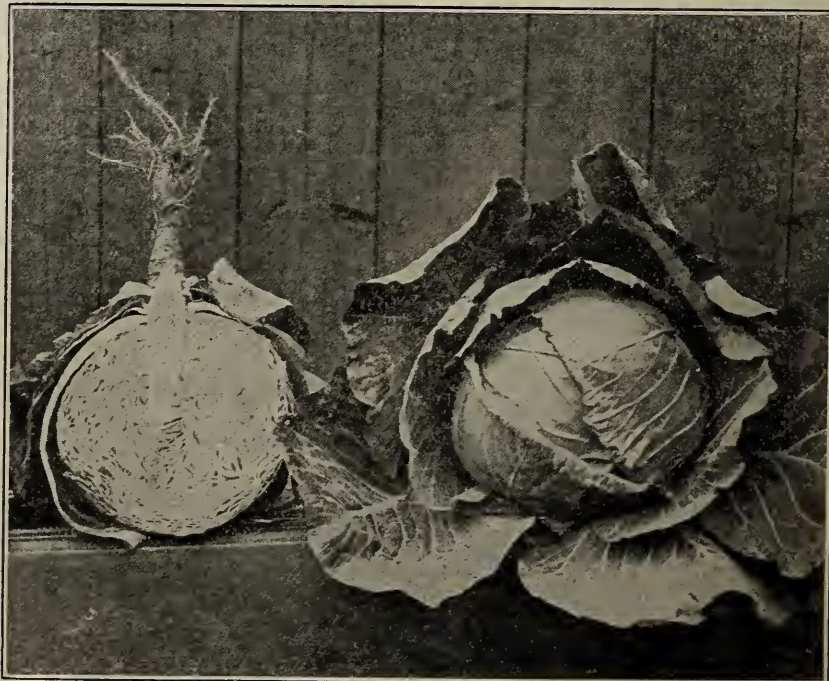
Golden  
Tankard  
Mangel

soon as ground can be worked. For later crops, successive sowings may be made, in this latitude, until about the middle of June, possibly some later, the time depending somewhat on the nature and condition of the soil, the season, and more on the variety, such kinds as All Seasons and Volga requiring considerably less time than the Danish Ballhead. Some growers prefer to sow the late varieties in hills where the crop is to be grown, thinning to one plant at first hoeing, but more often seed is sown in beds and transplanted.

## Copenhagen Market---The Best Early Cabbage

As early as the Charleston Wakefield it fully meets the requirements of earliness expected of an Extra Early variety, while the heads are as large, or larger than the Danish Ballhead, averaging in weight about ten pounds. The type is remarkably well-fixed, the heads perfectly ball-shaped, all maturing at the same time and so uniform in size that, as the representative of the Danish grower said, they appear as though they were all cast in one mold. The plant is short-stemmed, the heads being produced only a little above the ground. The light green, rather small leaves are saucer-shaped and always tightly folded, permitting of closer planting than usual with other varieties, having a head of equal size. No other early variety will produce so great a weight per acre and we doubt if any of the later varieties will much surpass it in this respect. The Copenhagen Market has proven itself a valuable addition to the market-garden varieties. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts., 2 ozs. 65 cts.,  $\frac{1}{4}$  lb. \$1.10.

**ALL SEASONS.** For reliability in heading, not surpassed by any other variety, and few equal it in ability to stand the hot sun and dry weather and when mature to remain in the field so long without bursting. Heads as large as most of the later sorts, nearly round or somewhat flattened, solid and of finest quality. Extensively used for both second early and main crop. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.



Copenhagen Market Cabbage





## CABBAGE—Continued



Danish Ballhead

**AMERICAN IMPROVED SAVOY.** The best of the Savoy type, which should be more largely grown. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**CHARLESTON EARLY WAKEFIELD.** A favorite with the market gardeners. Resembles the Early Jersey Wakefield in form but it is much larger. Matures equally as early. Very uniform in shape and very desirable for the market gardener. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., 1 oz. 30 cts., 2 oz. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

### EARLY JERSEY WAKE-

**FIELD.** Although this variety is not as early as the preceding one, it will be found the very best conical heading sort to come in immediately after. It is very compact, medium size, conical and a sure header. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., 1 oz. 30 cts., 2 oz. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**DANISH BALLHEAD.** This is now the most popular main crop variety for market, due to its remarkable solidity, weight, uniformity in size, fine keeping qualities and attractive round head. It is especially valuable for shipping to distant markets and for late spring use. Though the heads are but of medium size, owing to their great weight the product of an acre exceeds in weight that of any other variety. We offer a strain of seed which has been proved by repeated trials to be unsurpassed. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., 1 oz. 35 cts., 2 oz. 65 cts.,  $\frac{1}{4}$  lb. \$1.10.



Enkhuizen Glory

**ENKHUIZEN GLORY.** This comparatively new cabbage has proved to be the best second-early variety yet introduced. Earlier than the All Seasons it is more solid than either that or Henderson's Early Summer, and is of better shape than either, being nearly round, approaching closely in this respect the Copenhagen Market. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts., 2 ozs. 65 cts.,  $\frac{1}{4}$  lb. \$1.10.

**EARLY SPRING.** The earliest flat-headed variety, maturing soon after the Jersey Wakefield, but much larger. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**EARLY WINNINGSTADT.** Head large, conical, hard and keeps well. Plant very hardy and sure to head. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lbs. \$1.00.

**HENDERSON'S EARLY SUMMER.** An early large-heading sort. Head flat or slightly conical, remains on stump longer without bursting than most early kinds. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**FOTTLER'S BRUNSWICK.** An early, large drumhead which has been in New England one of the most popular second early varieties. Head flat, solid, keeps well and of good quality. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**PREMIUM FLAT DUTCH.** An old standard late variety. Head large, flat and solid. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**MAMMOTH ROCK RED.** Head larger and more solid than Red Drumhead; reliable in heading. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**SUREHEAD.** The heads are uniform in size and very hard and firm. They weigh from ten to fifteen pounds each. Is of the flat Dutch type. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

**WARREN STONE MASON.** An improved strain of the old Stone Mason. Previous to the introduction of the Danish Ballhead the most popular variety in New England for main crop. Earlier and more nearly round than the old strain, of medium size, hard, solid and of excellent quality. Reliable and keeps well. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 18 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{4}$  lb. \$1.00.

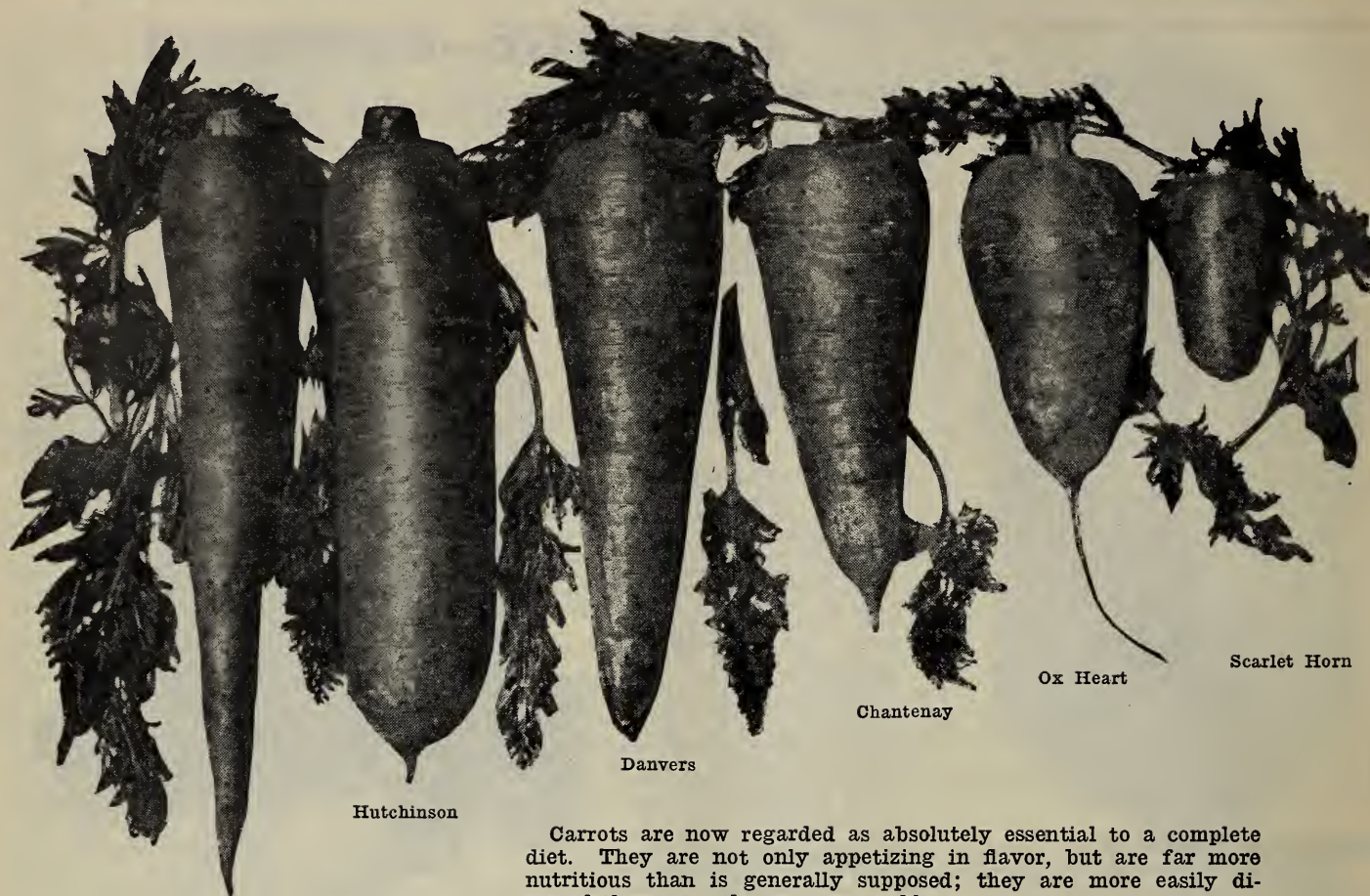
## CHINESE OR PE-TSAI CABBAGE

This is often called Celery Cabbage on the market, and when well grown resembles Cos Lettuce. It grows very rapidly and matures heads in less time than other varieties. The leaves, when young, are crimped and of a light green color. The plant, as it becomes older, grows more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white mid-ribs. It is of distinctive flavor, very mild and pleasant. It can be served as a salad, like Lettuce, or cooked like other Cabbage. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 60 cts.



Charleston Early Wakefield





Long Orange

Hutchinson

Danvers

Chantenay

Ox Heart

Scarlet Horn

Carrots are now regarded as absolutely essential to a complete diet. They are not only appetizing in flavor, but are far more nutritious than is generally supposed; they are more easily digested than any other root vegetable.

## CARROT

An ounce will sow about 150 ft. of drill; 3 lbs. to the acre

Modern cooking methods furnish numerous recipes in which Carrots are a most delicious dish. Creamed, alone, or in combination with Peas or other vegetables, they meet the approval of the most epicurean taste. They are used extensively in the best restaurants. For home use they are deservedly increasing in popular favor, not only as a table delicacy, but because of their high food value. For stock feeding the nutritive value of Carrots surpasses most other vegetables. Every stock owner should plant at least a small acreage of Carrots to supplement his fodder ration next winter to take the place of grain. In proportion to other costs they furnish very cheap food.

The Carrot thrives best in a light, sandy soil, free from stones, well enriched, and deeply and thoroughly worked. Make the top surface fine and smooth by raking. Sow in drills 14 inches apart and half an inch deep and thin plants to 3 or 4 inches apart. Sow from the middle of April to the middle of June.

**CHANTENAY.** A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**DANVERS HALF LONG.** A well known rich orange red variety, very smooth and handsome, producing extra heavy crops. An excellent market variety; crisp, sweet and tender. Although the roots are short, they produce as large a bulk as the longer field sorts and are more easily harvested. This variety has yielded 25 tons per acre. We have given this our special attention and offer at this time as good strain of seed as is possible to obtain. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**EARLY SCARLET HORN (Stump Root).** One of the best early forcing varieties, this being used mostly for forcing and extra early planting. It is very fine, green and of excellent flavor as a table Carrot. Grows well in shallow soil, being a short variety with small top. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**GUERANDE, or OXHEART.** Roots very thick, four and one-half to five inches long, tapering but little and ending abruptly in a small tap root, tender and sweet while young. Flesh, bright orange. Used considerably for bunching earlier in the season. A desirable variety for growing on hard, clayey soils. Easily harvested. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**HUTCHINSON.** Unquestionably the finest strain of Carrot yet introduced. This is a selection from the well-known Danvers, made by the late Mr. Amos Hutchinson, of Peabody, Mass. This Carrot always commanded the highest price in the market. In color it is a little darker than the Danvers, grows from one to two inches longer, and holds its fullness well down, and is a much heavier cropper. Two Carrots go across the box. You will actually secure 20 per cent. more Carrots per acre from this variety than from the Danvers, and the flavor is superior to all other Carrots. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 70 cts., lb. \$2.50.

**LONG ORANGE IMPROVED.** The roots of the improved strain of this variety we offer are very deep orange, long and comparatively thick, often twelve inches in length and three inches in diameter at the crown, tapering regularly to a point. The tops are rather large. This intermediate to late maturing sort is suitable for table use as well as stock feeding, combining great productiveness with uniform shape where grown in light, deep, rich soil. When of size suitable for the table, the roots are tender and of good quality. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 45 cts., lb. \$1.50.

**LARGE WHITE BELGIAN.** Grows one-third out of ground. The portion above ground is green, that below white, large and rather coarse. Used only for stock. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.





# EVERYBODY KNOWS ROSS' SEED GROWS



## Cauliflower

An ounce will produce about 2,000 plants

In general, the Cauliflower requires about the same treatment as the cabbage; moist land is, however, more essential and heavier manuring and more frequent cultivation aid to a greater extent the full development of the plant. In this climate the plant heads well only in the cool fall months. Seed should therefore be sown as for late cabbage, from the middle of May to middle of June, the late varieties, however, requiring a little more time than most late cabbage.

**EARLY SNOWBALL.** The earliest and surest to head. Probably more largely used than all others combined. We offer an unsurpassed strain from one of the leading growers in Denmark. Pkt. 20 cts.,  $\frac{1}{4}$  oz. \$1.25,  $\frac{1}{2}$  oz. \$2.25, oz. \$4.00.

**EARLIEST DWARF ERFURT.** One of the earliest varieties; very dwarf, with large, white, compact heads of finest quality. Excellent for forcing. Pkt. 20 cts.,  $\frac{1}{4}$  oz. \$1.25,  $\frac{1}{2}$  oz. \$2.25, oz. \$4.00.

**DANISH GIANT, or DRY WEATHER.** About ten days to two weeks later than the Snowball. Of dwarf growth, producing large, hard and snow white heads, fully protected by foliage. As indicated by the name, especially adapted for dry and hot climates. Pkt. 20 cts.,  $\frac{1}{4}$  oz. \$1.25,  $\frac{1}{2}$  oz. \$2.25, oz. \$4.00.

**EARLY LONDON.** A well-known variety, maturing its heads soon after the extra-early sorts. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 75 cts., oz. \$1.35, 2 ozs. \$2.60,  $\frac{1}{4}$  lb. \$5.00.



Snowball Cauliflower (Selected Stock)

## Celery

An ounce will produce from 3000 to 4000 plants

It requires about three months from sowing until the seedlings are ready to set in permanent place. For early setting, seed may be sown indoors in shallow boxes or in a cold frame, for later setting early in the open ground. Sow in fine soil, cover lightly and firm soil well with hoe or board. Keep soil moist, until seed germinates, nearly wet. When two or three inches high transplant so plants will be three inches apart each way. Shearing off the tops when plants are four inches high will make them more stocky. As soon as well rooted transplant to permanent location. In the field, plants are set in rows four to six feet apart with plants eight to twelve inches apart in the row. In the garden they are often set much closer. To blanch, draw earth about the plant from time to time, taking care that the tops of the centre shoots are not covered.



Giant Pascal Celery

**BOSTON MARKET.** An old variety of superior quality; at one time the most popular variety in New England. Of low, spreading habit, forms a number of secondary heads instead of a single large one. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**EASY BLANCHING.** A distinct sort. Very quick and easy to blanch, has exceptional keeping quality. The plant is of medium height, of great vigor, having thick rather than broad stalks, with shallow ribs. The stalks are very brittle and the flavor extremely spicy. Price: Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., 1 oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**GIANT PASCAL.** A green-leaved variety which developed from the Golden Self-Blanching. Very solid and crisp, of the finest quality, stringless, tender and of a peculiarly sweet, nutty flavor. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**GOLDEN SELF-BLANCHING.** The most popular variety for market, easily blanched, very attractive, of good quality, though not equal to some of the green celeries.

**TRUE FRENCH-GROWN SEED.** Pkt. 20 cts.,  $\frac{1}{2}$  oz. 65 cts., oz. \$1.25,  $\frac{1}{4}$  lb. \$4.00.

**AMERICAN-GROWN SEED.** Seed plants grown direct from French seed. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**WHITE PLUME.** The earliest and most easily blanched of all varieties, very showy, of good quality. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**WINTER QUEEN.** Of medium height, but stout, thick, and heavy, with a larger amount of heart than most other sorts. Of fine quality, more easily handled than the Giant Pascal, and an excellent keeper. One of the best for late winter use. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

### CELERIAC, Turnip Rooted Celery

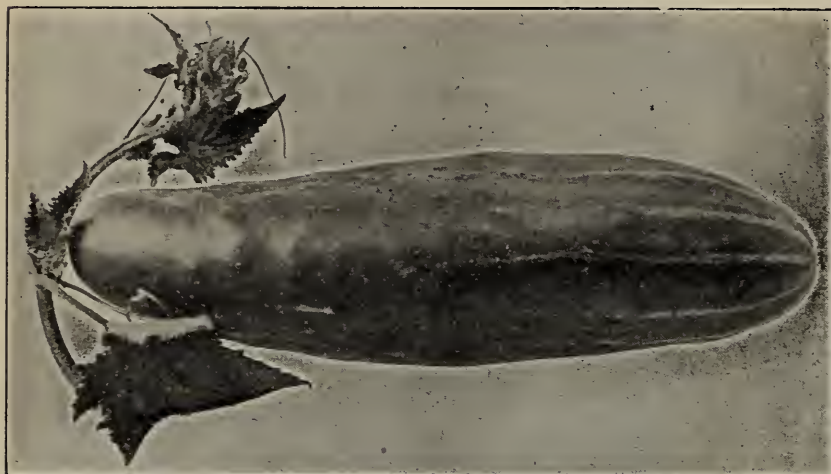
Sow seed and treat in first stage of growth as directed for celery. Set in rows 2 feet apart and 6 inches apart in the row. As the roots only are used, no banking is necessary. When roots have reached a size of 2 inches in diameter they are ready for use. These are boiled, sliced and eaten with vinegar. To keep through winter, roots should be packed in moist sand or earth.

**LARGE SMOOTH PRAGUE.** An improved sort with nearly round roots which have but few side roots. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts.,  $\frac{1}{4}$  lb. 80 cts.

### CHEVRIL CURLED

A hardy annual, used for flavoring and garnishing. It is thought by some to exceed even parsley in beauty. Seed should be sown early in the spring and when plants are well-rooted, transplant to one foot apart. The leaves will be ready for use in seven to ten weeks from planting. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts.,  $\frac{1}{4}$  lb. 80 cts.





Davis Perfect

## Cucumber

An ounce will plant about 50 hills.  $1\frac{1}{2}$  to 2 pounds to the acre

The Cucumber requires well-enriched soil, and should not be planted until settled warm weather, in this latitude, seldom before the middle of May. Plant the early, small kinds in hills  $3\frac{1}{2}$  to 4 feet apart, the larger varieties 5 to 6 feet. Make the hills broad, use 15 to 20 seeds to the hill, dropping them well apart. Cover with not over an inch of earth, and firm this well with the hoe. If the young plants are attacked by the striped bugs or other insects, dust frequently with air-slaked lime, soot or ashes mixed with road dust, taking care that too much is not used at one time. When all danger from bugs is past, thin to three plants to the hill. Give frequent shallow cultivation as long as vines will permit.

**DAVIS PERFECT.** Fruit long, slim, symmetrical, rich dark green, holds color until nearly ripe. Very attractive and of finest quality. One of the best for shipping. Vine especially vigorous and large. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**EARLY CLUSTER.** Early and productive. Fruit small, dark green, borne in pairs or clusters, largely near the root. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**EARLY RUSSIAN.** The earliest and hardest variety. Fruit 3 to 4 inches long. Vine vigorous and productive. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**EMERALD.** Fruit straight, symmetrical and entirely spineless. Color very dark green which it retains until ripe; of excellent quality, attractive and popular for shipping because it holds color so long. Vine productive; season medium to late. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**EARLY FRAME, or SHORT GREEN.** Fruit straight, smaller at the ends, bright green, a little later than the Early Cluster. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**EXTRA LONG, or EVERGREEN WHITE SPINE.** A distinct and superior strain of this popular type. Fruit long, cylindrical, dark green, crisp and tender. Vine productive and comes into bearing soon after the Early White Spine. Popular with market gardeners. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**IMPROVED WHITE SPINE.** Deservedly the most popular type. Fruit uniformly large, straight and attractive; dark green, lighted at blossom end with a few white spines; flesh tender and of fine flavor. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

## CORN SALAD, FETTICUS, or LAMB'S LETTUCE

A hardy, rapid-growing plant, often used in winter as a substitute for lettuce and is sometimes cooked and used like spinach. It does not thrive in hot weather and if sown in the spring it should be very early and on extremely rich soil. It will then be ready for use in four to six weeks. It, however, succeeds best when sown in August or September. If sown in the former, it will be ready for use in the late fall. If left in the ground during winter, it should on the approach of cold weather, be protected with straw or litter. Pkt. 10 cts., oz. 30 cts., 2 ozs. 55 cts.,  $\frac{1}{2}$  lb. \$1.00.

## CHICORY

**WHITLOOF, or FRENCH ENDIVE.** Esteemed as a salad plant. Spring-sown seeds produce parsnip-like roots by November. Cut the leaves off  $1\frac{1}{2}$  in from neck, trench  $1\frac{1}{2}$  in. apart, cover with soil 8 in. over crown; then place a 2 or 3 ft. layer of fresh manure which induces new growth of blanched leaves folded like Cos Lettuce, which are eaten raw as salad. Pkt. 10 cts., oz. 30 cts.,  $\frac{1}{2}$  lb. 85 cts.

## CHIVES

**CHIVES.** Are a small, hardy perennial plant resembling onion in appearance and grow in clusters. They are grown for the leaves, which are produced freely from early spring and give a mild onion flavor to sausages, salads and soups. They can be easily grown in pots at a sunny window during the winter. Pkt. 15 cts.,  $\frac{1}{2}$  oz. 40 cts., 1 oz. 75 cts.

**BOSTON PICKLING.** For pickling this variety is superior to all others. Its fruit is short, pointed at each end, bright green, uniform in size, very productive and of superior quality. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**CUMBERLAND.** A distinct variety of the White Spine type. Vine vigorous, very productive, and continuous in bearing, much longer than most sorts. Fruit large, symmetrical, dark green, thickly set with small white spines; of best quality. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**LONG GREEN.** An old standard variety, very popular for home gardens but little used for market. Fruit very long, slender, very firm and crisp, uniformly dark green; makes fine pickles and is the best of all when ripe for making sweet pickles. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**JAPANESE CLIMBING.** Vine very vigorous, with especially strong grasping tendrils. Fruit of good size and quality. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**NICHOL'S MEDIUM GREEN.** Fruit thicker than White Spine and full at both ends; light green, attractive and of fine quality. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$1.75.

**ENGLISH FRAME CUCUMBER—TELEGRAPH.** The English forcing cucumbers are seldom grown out-of-doors, but possess special merit for forcing in the greenhouse. The plants grow thrifty and are exceedingly prolific. The fruits of this special strain of 'Rollison's Telegraph' measure from eighteen to twenty-four inches in length and individual specimens have been grown which weighed over ten pounds. The long green cylindric fruits contain only very few seeds. English Frame can be highly recommended to all who wish to grow cucumbers in the greenhouse. Seed very costly and sold only in small packets. Pkt. 25 cts., 5 pkts. for \$1.00.

## COLLARDS

(One oz. for about 3,000 plants)

Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.

**GEORGIA.** The most satisfactory variety for general use. Pkt. 10 cts., 1 oz. 25 cts.



Improved White Spine





# EVERYBODY KNOWS ROSS' SEED GROWS



## DANDELION

An ounce will sow 200 feet of drill. Two pounds to the acre.

Sow early in the spring in rich soil in drills 15 to 18 inches apart, cover lightly but make the earth firm. Thin to 5 inches apart in row. Cultivate frequently through the summer. Plants ready for cutting the following spring.

**CULTIVATED, or FRENCH COMMON.** A greatly improved strain of the common Dandelion. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts., ¼ lb. \$2.00.

**IMPROVED THICK-LEAVED, or CABBAGING.** A distinct variety unsurpassed in thickness of leaf and deep green color. It grows compactly, forming a regular upright tuft. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts., ¼ lb. \$2.00.

## DILL

An annual of aromatic odor and warm pungent taste. Its seeds are used for seasoning. It possesses medicinal properties but its largest use is for making Dill pickles. Plant branching, two to three feet high; leaves very much cut into thread-like segments. Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., lb. \$1.40.

## ENDIVE

An ounce will sow 150 feet of drill, producing from 2000 to 2500 plants.

Endive, like lettuce, may be grown at any season, but is more generally used in the fall. For early use, sow in April, for later, until July, in drills 18 inches apart, or in beds for transplanting, plants should stand 10 to 12 in. apart in the row. When nearly full grown, tie outer leaves over center to blanch the heart, or blanch with boards as with celery.

**MOSS CURLED.** Of dense growth and finely curled. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.75.

**LARGE GREEN CURLED.** Of larger growth, not so much curled as preceding. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.75.

**BATAVIAN BROAD LEAVED (Escarole).** A variety having broad, more or less twisted and waved bright green leaves with thick, nearly white mid-ribs. The inner leaves form a fairly solid, clustering head which blanches a beautiful deep creamy white and is crisp, tender, and of fine flavor. Unsurpassed for salads. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.75.

## CRESS, CURLED OR PEPPER GRASS

A small pungent salad plant, much liked by some with lettuce. Like all salad plants it should be grown on rich ground. Seed may be sown early in the spring, but if desired through the summer repeated sowing will be necessary. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., ¼ lb. 60 cts.

## EGG PLANT

An ounce will produce about 1000 plants

The Egg-plant, like all sub-tropical plants, requires, for both germination of seed and vigorous growth of plant, a high temperature. The seed is slow in germinating, and should be sown about the first of April. When the young plants show two rough leaves, transplant 3 to 4 inches apart, and when settled warm weather comes, set in rich, warm soil, 2½ to 3 feet apart each way.

**BLACK PEKIN.** An early variety, nearly round, large, smooth, black and glossy. Plants prolific, leaves purplish black. Pkt. 10 cts., ½ oz. 30 cts., oz. 55 cts.

**NEW YORK IMPROVED (Spineless).** The favorite variety. Fruit of largest size, light purple and finest quality. Plant large, spreading and very productive; foliage light green. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

**BLACK BEAUTY.** A valuable variety, ready for use two weeks earlier than any other sort. The fruit is thick and of a rich purplish-black color. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

## KOHL RABI

An ounce will sow about 200 feet of drill.

The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip. Seed should be sown in light rich soil as early in spring as possible in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession until hot weather, when they fail to grow well. Plantings may be made the latter part of July for fall use.

**EARLY WHITE VIENNA (Extra for forcing).** This variety is extremely early with distinctly small tops. The bulbs are of medium size, very light green or nearly white, and are of best quality for the table if used when about two inches in diameter. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**EARLY PURPLE VIENNA.** Very early, with small top, the leaf stems being tinged with purple. Bulbs of medium size, purple; flesh white. Desirable for forcing and early outdoor planting. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

## LEEK

Leeks require rich soil. Sow early in spring in deep drills, eighteen inches apart, but cover with but one-half inch of soil. Thin plants to about eight inches apart and as they grow gradually fill the drill and draw the earth around them as with celery. Or if very tender and white leeks are desired, sow in bed and transplant when plants are six inches high into trenches six or eight inches deep and as they grow, gradually fill the trench and later draw the earth around them so that it will be two or three inches above the level.

**AMERICAN BROAD FLAG.** A desirable strong growing, broad leaved leek, hardy and productive. It is a favorite with many market gardeners and is also extensively used for the home garden. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**GIANT MUSSELBURGH.** A very hardy variety of extra-large size; the leaves are fan-shaped, of a dark green color, the edible stem is 6 to 8 inches long and 3 inches in diameter. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.



Endive Batavian Broad Leaf

## WATER CRESS

**WATER CRESS.** Hardy plant which can be grown in a pond or along the banks of a running stream. Largely used as a garnish during the winter and early spring months. Pkt. 10 cts., ½ oz. 35 cts., ¼ lb. \$2.00.



New York Improved Egg Plant





## Kale or Borecole

An Ounce will produce 2,000 Plants.

For early use, sow in May and transplant in June, and treat generally as for cabbage.

**DWARF GREEN CURLED SCOTCH.** One of the best plants grown for greens. This is a finely curled, low-growing variety, the leaves of which when properly cooked make very palatable greens. The plant is very hardy, the leaves are long and of an attractive bright green color. This sort is also very often used for garnishing. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 60 cts.

## Lettuce

An ounce will produce from 3,000 to 4,000 plants.

Lettuce thrives on nearly all soils, but because the growth should at all times be rapid to insure crispness and best flavor, the soil should be heavily enriched and well worked before planting. Lettuce being quite hardy, seed may generally be sown as soon as ground can be fitted, as, while prolonged or continued freezing will kill the plants, they are but little injured by an ordinary frost. Seed may also be sown in the hotbed in gentle heat, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground very soon after the time suggested for sowing seed outdoors.

### General Crop, Heading and Loose Leaved Varieties

**BELMONT FORCING.** This is a plain-leaved variety. It forms a compact head and is, like the Tennisball, almost certain to head, making it a desirable and profitable variety for forcing. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 40 cts., oz. 75 cts.,  $\frac{1}{4}$  lb. \$2.50.

**BIG BOSTON.** Resembles the White-seeded Tennisball, but is much larger. Though the head is larger, having but few outer leaves, the variety is used to some extent for forcing. It heads very well in early spring outdoors, but does not head well in midsummer. It is, however, especially valuable for last planting, enduring cold weather conditions better than any other variety. Grown extensively in the south for shipping north in the winter. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**BLACK-SEEDED TENNISBALL.** More extensively grown in New England than any other variety, both for first outdoor crop and for main crop, the medium sized heads being the size most liked by gardeners, while its compact form allows it to be grown more closely together than others. Leaves plain, thick, dark green; blanches to a rich creamy white inside. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**BLACK-SEEDED TENNISBALL (New England Strain).** Grown in New England this is a selection from our regular strain of Black-Seeded Tennisball which has been selected until it will produce almost 100% good, marketable heads. (Supply limited.) Pkt. 15 cts.,  $\frac{1}{2}$  oz. 30 cts., oz. 55 cts.,  $\frac{1}{4}$  lb. \$2.00.

**BLACK-SEEDED SIMPSON.** Much larger than the preceding, but not so much curled. Forms a large, loose cluster of leaves rather than a head; leaves light yellowish green. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**BOSTON FINE CURLED.** Beautifully curled, excellent for garnishing. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**CRISP AS ICE.** A midsummer variety, surpassing all of this class in crispness, tenderness and fine flavor. Forms large solid heads, with leaves crimped and curled, those outside being variegated dark green and bronze, the inner portion blanching to a rich creamy yellow. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**DEACON.** One of the most popular summer varieties. Large solid heads of excellent quality and fine flavor and which remain in condition for use for a long time. Plant very compact with few outer leaves which are usually very smooth, thick and light green, the inner portion blanching a beautiful cream-yellow. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**DRUMHEAD, or MALTA.** Sometimes called "Chinese" lettuce. A very large, tight-heading variety. Leaves are rather coarse, but very brittle and tender. Is dark green and slightly curled. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**EARLY CURLED SIMPSON.** (White-seeded.) An old variety, with broad, often frilled, very curly light green leaves; sweet, tender, of fine flavor. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**EARLY CURLED SILESIA.** An old, standard variety, very popular for home gardens. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**GRAND RAPIDS.** Without doubt this is one of the easiest varieties of lettuce to grow. It forms no head but produces an abundant crop of pale green leaves, slightly but closely crumpled which have an excellent flavor. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.



Kale, Dwarf Green Curled Scotch



Black-Seeded Tennisball





# EVERYBODY KNOWS ROSS' SEED GROWS



## LETTUCE—Continued

**HANSON.** An old variety of great merit. Forms a large, flat, cabbage-like head, very slow to run to seed. The outer leaves are bright green, with veins of lighter shade, inner leaves whit, usually curved and twisted at the base. A very attractive variety of excellent quality and extensively grown for home use. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**ICEBERG.** The unusual solidity of the heads is insured by the large white main ribs of the leaves, each of which, curving strongly into the center, acts like a truss, making it impossible for the leaves to open outward and expose the center, which is consequently thoroughly blanched. The leaves are always crisp and tender. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**MAY KING.** A new, very hardy variety of foreign origin, which owing to its hardness, earliness and large size for a variety of this class, is coming rapidly into favor here, both for outdoor planting and for forcing. Forms compact heads, nearly, if not quite, as early as White-seeded Tennisball. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**NEW YORK MARKET.** One of the largest varieties in cultivation. The heads are very solid with but little tendency to run to seed. It blanches itself naturally, is crisp, tender, and of excellent flavor, and always free from bitterness. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**PRIZE HEAD.** A large, loose-leaved variety, which has been very popular for home use. Leaves very thin, crimped, bright green tingled with brownish red; sweet, tender and of good flavor, but not equal to Crisp as Ice. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**SALAMANDER.** A large, compact head of good quality. Leaves light green, broad, thick, somewhat crumpled, closely overlapping so that inside they blanch to a creamy white. Withstands heat remarkably. One of the best varieties for midsummer. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

**WHITE-SEEDED TENNISBALL, or BOSTON MARKET.** An old and popular variety for forcing; heads small and compact. Not suitable for outdoor planting. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

## ROMAINE OR COS VARIETIES

These are distinct from the ordinary lettuce, and much liked on account of their tender, crisp leaves and delicious flavor. The leaves are long and narrow and need to be tied up when they soon form solid heads and bleach snow white.

**EXPRESS COS.** A fine dwarf early sort requiring no tying up. Pkt. 10 cts., ½ oz. 15 cts., 1 oz. 25 cts., ¼ lb. 60 cts.

**PARIS WHITE COS.** One of the finest varieties for summer use. Pkt. 10 cts., ½ oz. 15 cts., 1 oz. 25 cts., ¼ lb. 60 cts.

**TRIANON COS.** Similar to above but grows whiter and matures earlier. Pkt. 10 cts., ½ oz. 15 cts., 1 oz. 25 cts., ¼ lb. 60 cts.



May King

## Muskmelon

An ounce will plant about 50 hills. 1½ to 2 pounds are required for an acre.

The Muskmelon succeeds best in warm, rich soil. Plant when all danger of frost is past, in broad hills 4 to 5 feet apart, 10 or more seeds to each hill. Cover with one inch of soil and firm well with the hoe. If young plants are attacked by insects, dust them with air-slacked lime or ashes mixed with twice as much road dust. Use this frequently but sparingly, as a large quantity at one time is liable to injure the plants. When all danger from insects is past, thin to three plants to the hill.

**ADMIRAL TOGO.** A new variety, similar in appearance to the Rocky Ford, having the same dense netting and of the same shape and size, but with orange flesh. The flesh is unusually thick and rich flavor, and the variety combines to a remarkable degree superior quality with the desired firmness for shipping. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

**BUREL'S GEM.** The melons are six to seven inches long by four and a half to five inches in diameter, rather sharply sloping at the ends. They are quite well ribbed and covered with a fine grayish netting. The skin is a rich dark green, contrasting finely with the deep orange-salmon-colored flesh; sweet and tender. The flesh is thick and firm, ripening close to the skin, leaving only a thin rind. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

**EMERALD GEM.** Small to medium size; skin deep green, generally smooth; flesh thick, rich salmon, not surpassed in richness and flavor. But few varieties are so nearly certain to produce uniformly good melons. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

**EXTRA-EARLY HACKENSACK.** Above medium size, nearly round; flesh green, a little coarse but juicy, sweet and of good flavor. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

## HONEY DEW MELON

The original seed of this new melon was secured from a melon shipped from Africa to New York City. This seed was planted at Rocky Ford, Colorado, and crossed with the genuine, original "Rocky Ford" cantaloupe by pollenization. The following season this hybrid seed was again crossed with the Improved Hybrid Cassaba. The melon was named "Honey Dew," as it is as sweet as honey and has the mingling of several flavors—pineapple, banana and vanilla predominating.

The average size of the melon is six inches in diameter and seven to eight inches in length. The flesh is an emerald green, very thick, melting, and fine grained; can be eaten to the extreme rind. The seed cavity is very small, the rind impervious to water. The melon does not shrink in weight, is not easily bruised, and is a splendid shipper. It is later than Rocky Ford strains and is very prolific.

Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts., 1 lb. \$2.50.

A report comes from Colorado to the effect that three years ago a prominent farmer of that state paid \$1,600 for one and one-half pounds of Honey Dew Melon Seed which was used as the basis in starting a farming project for the growing of this variety.

**IMPROVED GREEN NUTMEG.** Large, round flattened at both ends. Ribbed and covered with coarse netting, flesh thick, and of fine flavor. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

**MONTREAL NUTMEG.** The fruits are of the largest size, often attaining a weight of 15 pounds. Shape nearly round, flattened at the ends. The flesh is about two inches thick, light green, and of a delicious flavor. This variety commands high prices in the Eastern markets during the Fall months. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.



Paris White Cos Lettuce





## MUSKMELON—Continued

**OSAGE, or IMPROVED MILLER'S CREAM.** Of medium size, oval, dark green, shallow netting; flesh deep salmon, thick, very firm, sweet and of rich flavor. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**PAUL ROSE, or PETOSKY.** The product of crossing the Osage and the Netted Gem. Resembles the latter, but is a little larger, and flesh is rich orange. Very sweet and high flavored. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**ROCKY FORD.** More largely grown than any other of the small or basket melons. Oval, slightly ribbed, densely covered with fine netting; flesh green; thick and of rich flavor. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**SURPRISE.** Of medium size, oval, lightly ribbed, netted in patches; skin yellowish white; flesh, deep salmon, of good quality; vine hardy, productive and bears early. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

## WATERMELONS

An ounce will plant about 30 hills  
4 pounds to the acre

The culture of the Watermelon is mainly the same as recommended for the Muskmelon, hills should, however, be about 10 feet apart.

**COLE'S EARLY.** Small but very early; of fine quality and sure to mature in any latitude where melons can be grown. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**HARRIS' EARLIEST.** A new extra-early variety, large and of exceptionally fine quality. Slightly oval, mottled in stripes of light and dark green. Flesh bright red. One of the most desirable for planting in the North. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**PHINNEY'S EARLY.** A standard early variety of medium size, oval marbled light and dark green; flesh pink, sweet and crisp. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**PEERLESS, or ICE CREAM.** Of medium size, oval, dark green; flesh scarlet, very sweet. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**MOUNTAIN SWEET.** An old favorite, early productive and of good quality. Fruit long, dark green; flesh scarlet. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**SWEETHEART.** Large, oval, very heavy; rind thin but firm mottled light and very light green; flesh bright red, tender, melting and sweet. Retains its good qualities for a long time after ripening. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**KLECKLEY'S SWEET, or MONTE CRISTO.** One of the sweetest, above medium size; dark green; rind thin; flesh bright red. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**HALBERT HONEY.** A variety which rivals the Kleckley's Sweet in quality, while the vine is more productive. Fruit of medium size, blunt at both ends, deep glossy green; rind very thin; flesh crimson, entirely free from fiber, rich, sweet and melting. Unsurpassed for home use. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**TOM WATSON.** Produces melons 18 to 24 inches long by 10 or 12 inches in diameter and weighing from 50 to 60 pounds; the dark green rind is tough but thin and easily withstands shipment. The deep red flesh extends to within three-quarters of an inch of the rind, is crisp, melting and of the finest flavor. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.

**CITRON.** For preserving only. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 50 cts.



Rocky Ford

## MUSHROOMS

Cultural directions, to be of any value, would be too lengthy to give here, but we offer the very helpful little book "Mushroom Culture and Pure Culture Spawn," which not only gives the latest methods of culture of Mushrooms but also how best to prepare them for market, and several recipes for cooking them. 25 cts., postpaid.

**LAMBERT'S PURE CULTURE SPAWN.** This will produce Mushrooms of a specific variety, selected with reference to size, color and yield, and eliminates absolutely any danger of poisonous specimens. Standard bricks, weighing from  $1\frac{1}{4}$  to  $1\frac{1}{2}$  pounds, of the variety most largely cultivated. 30 cts. each. Postpaid, 40 cts. each, 4 bricks, by express, \$1.00.



Mushrooms

## MUSTARD

Used mainly for salads, but is sometimes boiled for greens. Sow as early as ground can be worked in drills eighteen inches apart and one-half inch deep. If desired throughout the season, successive sowings should be made about every three weeks.

**WHITE, or YELLOW.** The common variety. The seeds are often used to flavor pickles. Pkt. 5 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.

**SOUTHERN GIANT CURLED.** Large, light green leaves, much crumpled at the edge. The best for salads. Pkt. 5 cts., oz. 20 cts.,  $\frac{1}{4}$  oz. 50 cts.

## OKRA OR GUMBO

The young seed pods are used in soups or stewed and served like asparagus. Much esteemed in the South. In the North requires an especially warm location and probably best results would be obtained by sowing seed in the hotbed. Set plants in rows two feet or more apart and about a foot apart in the row. The seeds are a long time in germinating.

**DWARF GREEN.** Early and productive; best for northern cultivation. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.

**PERKIN'S MAMMOTH LONG POD.** A dwarf but enormously productive variety. Pods long, slender, deep green and remain tender much longer than most sorts. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.



Kleckley's Sweet





## ONION

An ounce will sow about 100 feet of drill,  
4 to 5 pounds to the acre.

The Onion usually thrives best on old, rich land, but can be profitably grown only on such as has been kept free from weeds. If stable manure is used it should be either well rotted or plowed into the soil the previous fall. As manure always contains more or less weeds, many large growers use nothing but commercial fertilizer. The soil should be worked until manure or fertilizer is thoroughly mixed with it and the surface made fine and even by raking. Sow as early as ground can be prepared, in rows 12 to 14 inches apart, one-half inch deep and make soil firm. Keep free from weeds, especially at first, for if the weeds once get ahead of the young plants it is almost useless to continue cultivation—the land would better be plowed and replanted with some other crop.

**AILSA CRAIG.** Of mammoth size, larger than the Prize-taker, oval-shaped, pale straw-colored skin; of very mild flavor. One of the best for exhibition on account of its enormous size. In England the most popular large onion. Bulbs have been grown that weighed 2½ pounds. Extra large onions can, however, be obtained only by sowing seed early in the spring in the hotbed and transplanting to the open ground when plants are of sufficient size. Seed from English Prize-winning stock. Pkt. 10 cts., ½ oz. 30 cts., oz. 55 cts., ¼ lb. \$2.00.

**SOUTHPORT YELLOW GLOBE.** Bulbs nearly spherical, slightly elongated; does not mature quite so early as our Selected strain of Yellow Globe Danvers; a little more inclined to grow stiff-necked on some soils or in unfavorable seasons, but when well-grown brings the highest price, especially in New York markets. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**SOUTHPORT RED GLOBE.** Identical in form with the preceding; rich deep red, above medium size; an excellent keeper and one of the most attractive of all. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**SOUTHPORT WHITE GLOBE.** Of true globe shape. Later than White Portugal; keeps better and like all globular varieties a greater weight can be obtained on the same area. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.75.

**WHITE PORTUGAL, or SILVERSTEIN.** An early white, flat variety, of medium size and mild flavor. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.75.

**EXTRA EARLY RED FLAT.** The earliest red variety; of medium size. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**LARGE RED WETHERSFIELD.** The standard red variety. Bulb large, flattened but thick; skin deep purplish-red. The best of all for light soils. Pkt. 10 cts., ½ oz. 25 cts., oz. 45 cts., ¼ lb. \$1.50.



Ailsa Craig

**PRIZETAKER.** Of the largest size, form nearly globular; skin thin, light straw-color. Quite certain to bottom, but is later in maturing than any of the preceding, and though fine bulbs are often obtained from seed sown in the open ground in favorable locations, the largest and finest bulbs are grown from seed sown in a hotbed and the plants set in the open ground when about six inches high. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.75.

**YELLOW GLOBE DANVERS.** This is an old favorite—the standard variety for winter use in the eastern markets. It produces well-ripened bulbs, averaging two inches in diameter and nearly globe shaped. The skin is a light golden brown or pale yellow, and the flesh is pure white, crisp, and mild in flavor. The plants have very slender necks, and consequently the bulbs keep well over winter. They ripen up uniformly, which characteristic recommends the variety to market growers. Although not quite so truly globe shaped as the Southport Yellow Globe Onion, they are somewhat earlier. On account of their attractive shape and color and their excellent keeping qualities they always bring a good price in the markets. Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. \$1.00.

**YELLOW GLOBE DANVERS.** Extra Selected. Eastern grown seed. A superior strain grown from carefully selected bulbs; of perfect form, unusually small neck, skin of rich, deep color; firm and heavy, and unsurpassed for shipping or storing. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.75.

Ross Bros. Co., Worcester, Mass.

Falkenburg, Ont., Nov. 4, 1919.

Dear Sirs:—

Referring to your letter of Nov. 1st asking about Eureka Corn. I liked it very well. We had a very good crop, but as I never grew field corn before I can't compare it with other varieties.

But the small seed I got from you, I liked them very much. My onions grown from your seed were splendid.

Yours truly,  
W. H. Smith.



Yellow Globe Danvers





Yellow Onion Sets

## Onion Sets

We do not deliver Onion Sets free; purchaser pays transportation. Onion Sets weigh 1 lb. per quart. For Parcel Post Zone rates see inside front cover.

Onion Sets require rich soil and, with the exception of the Egyptian, early planting. Rows should be the same distance apart as suggested for onions grown from seed, and sets should be planted from 2 to 4 inches apart, and only lightly covered with earth, the top of set just below the surface with any growth it may have made above. Culture same as of onions from seed.

**WHITE GLOBE.** Lb. 30 cts., 4 lbs. \$1.10, 8 lbs. \$2.00.

**YELLOW GLOBE.** Lb. 30 cts., 4 lbs. \$1.10, 8 lbs. \$2.00.

**EGYPTIAN or PERENNIAL.** (Ready in September.) Lb. 30 cts., 4 lbs. \$1.10, 8 lbs. \$2.00.

## Parsley

One ounce will sow 100 feet of drill

**CULTURE.**—Parsley thrives in rich, mellow soil and, owing to the very slow germination of seed, succeeds best when seed is sown as early in the spring as ground can be worked. Sow in drills, one-half inch deep, 14 to 16 inches apart, and when well up, thin plants to 8 inches. It may be cut when 3 or 4 inches high, and if soil is of the required richness, will afford several cuttings during the season. The Moss Curled is perhaps slightly more curled, while the Double Curled is claimed by some to be the more productive of leaves and to better withstand dry weather.

**CHAMPION MOSS CURLED.** This is a prize winning English variety, very distinct. It makes remarkably handsome, compact plants and its leaves have the appearance of finely curled moss. The plant is quite hardy and very slow to run to seed. Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts.

**DOUBLE CURLED.** Plants compact, very curly and finely cut; bright green color. Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts.

**PLAIN LEAF.** The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves as well as its hardness of plant. The curled sorts are more extensively used for garnishing. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., ¼ lb. 65 cts.

## GROW NEW POTATOES

from Hybridized "Seed Ball" Seeds. No product so interesting—none may be of such value. There's money in it, and fun galore. The result will be amazingly diversified—potatoes of all colors, shapes, and sizes, 50 or more distinct varieties. One may make your fortune. Order now. This may be your last chance. Packet, with directions 15 cts. 4 for 50 cts., 10 for \$1.00.



Parsley

## Parsnip

One ounce will sow 150 feet of drill, 6 pounds are required for an acre.

**CULTURE.**—The Parsnip thrives on any soil which is deep, mellow and moderately rich, but best on that which is rather light or sandy. Avoid the use of fresh manure, as, when used, roots are more inclined to be coarse, spongy and ill shaped. Seed germinates slowly, should be sown fairly early and immediately after ground is prepared—that is, before the soil has become dry. Sow in rows 18 inches apart, cover with one-half inch of soil and make latter firm by rolling or with back of hoe. Thin plants to three inches apart.

Of each variety we offer a choice selected strain. Each, pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., ¼ lb. 65 cts., lb. \$2.00.

**ARLINGTON LONG SMOOTH.** Roots very long and smooth, with full crown; desirable for deep soils and, owing to the full crown, is less liable to rot if left in the ground through the winter than the Hollow Crown.

**HOLLOW CROWN.** Roots of medium length, thicker at the top or shoulder than the preceding; succeeds better on shallow or stiff soil; crown slightly depressed; does not, on this account, keep so well in the ground through the winter as the Arlington Long Smooth, but is more easily harvested and more extensively grown.



Hollow Crown Parsnip





# EVERYBODY KNOWS ROSS' SEED GROWS



## PEPPERS

An ounce will produce from 1,500 to 2,000 plants.

The Pepper requires deep, rich, warm soil. Sow in hotbed or in the house early in April and transplant to open ground about the first of June. Set in rows 2½ feet apart and about 2 feet apart in the row. A liberal application of any fertilizer rich in nitrogen, made when plants are set in the open ground, or at first hoeing, will greatly assist the growth of the plants, increase the productiveness and improve the quality of the fruit.

**BELL, or BULL NOSE.** Large, bell-shaped, thick-fleshed and less pungent than some other sorts. Good for filling. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.75.

**CHINESE GIANT.** Mammoth fruits measuring 12 to 15 inches in circumference, also early and prolific. The flesh is thick, tender, mild and sweet. Unexcelled for use as salads. Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.

**GIANT CRIMSON.** The first to mature of the extra-large varieties and surpassed by none in evenness of size and shape. The fruit averages heavier than any other large peppers, as the flesh is unusually thick. When matured the color is deep crimson, flavor very mild. The plant grows upright, is vigorous, larger than the Chinese Giant, and more productive. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

**LONG RED CAYENNE.** Fruit very slim, pointed, about 4 inches long, and when ripe, bright red. Extremely pungent. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

**NEAPOLITAN.** A great market variety on account of its earliness and productiveness. Grows about 3½ in. long and is remarkably sweet. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts.

**QUALITY.** The originators of this pepper write the following: "It is a very attractive pepper, averaging 5½ inches in length and 3½ inches wide at the stem and 3¼ inches at the other end." It is very productive and is especially valuable for the market gardener. The plant has a very heavy and dense foliage, protecting the peppers from the first early frosts. It is very sweet (almost as sweet as an apple). Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.

**RED CHILI.** Used for making pepper-sauce. Pods bright red, slender, about 2 inches long and very pungent. Requires a long season; seed should be sown early in hotbed. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

**RUBY KING.** Large. Four to six inches long, symmetrical, very mild and sweet. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts.

**SQUASH, or TOMATO-SHAPED.** Fruit flat or tomato-shaped, and somewhat ribbed, flesh thick and slightly more pungent than other large sorts, early and sure to mature. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts.

**SWEET MOUNTAIN.** Fruit very large, often 8 inches long by 2 in diameter. Flesh thick, sweet and mild. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts.

**WORLD BEATER.** New. Large, smooth, beautiful Peppers. Mild flavor, very early to ripen, very prolific. Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts.



Bell Peppers

## PUMPKIN

An ounce will plant 12 to 18 hills.

**SMALL SUGAR.** The popular variety in New England for pies; fine-grained and sweet. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

**LARGE CHEESE, or KENTUCKY FIELD.** Shape flat, skin of a rich cream color when ripe, flesh tender and of fine quality. Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.

**MAMMOTH TOURS.** One of the largest in cultivation, good for feeding stock. Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.

**CONNECTICUT FIELD.** The standard variety for feeding stock. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

**GOLDEN OBLONG.** Pumpkin from 15 to 20 inches long and 8 to 10 inches in diameter, skin rich golden yellow, thin, but tough. Flesh light golden yellow, of fine quality. Keeps nearly as well as the hard-shell squashes. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

**QUAKER PIE.** Fruits broad, pear-shaped to slightly oval; skin rich cream-buff; flesh fine grained and of rich flavor. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

**JUMBO, or KING OF THE MAMMOTHS.** The largest of all Pumpkins. Skin, orange-salmon; flesh bright yellow, very thick, fine grained and of excellent quality for pies. Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.

**WINTER LUXURY.** Medium size, productive and an excellent keeper. Color of skin russet; fine netted. Pkt. 10 cts., oz. 20 cts., ¼ lb. 75 cts., lb. \$2.50.



Small Sugar Pumpkin

## GARDEN PEAS

Of the early smooth varieties, 2 pounds will plant 150 feet of drill. Of the wrinkled sorts, 2 pounds will plant about 100 feet, 70 to 85 pounds will plant an acre.

Peas of the extra early, smooth class are the very first thing to be planted in the garden in the spring. The wrinkled sorts follow a little later, as they are not quite so hardy. The tall, late varieties need brush, wire or some other support. Though light, warm soil is desirable for the extra early varieties, peas generally produce a much larger crop on soil which is moderately heavy. By making the proper selection of varieties and planting frequently for succession one may have a full supply of the choicest green peas during the entire season.

Plant the early and dwarf varieties in drills 2½ feet apart and 3 or 4 inches deep, but cover with but one inch of soil and fill trench gradually as plants grow. Plant the taller and later varieties in rows 3 to 4 feet apart and 5 to 6 inches deep covering as already suggested. The tall, late varieties may be planted in double rows, thus using the supports which may be set between for both rows.

**PEAS BY PARCEL POST.** The prices given here are for Peas at our counter or by express or freight, at customer's expense. If these are wanted in quantities over 1 pound by Parcel Post remit extra for postage at zone rates. See inside front cover.

### EXTRA EARLY DWARF VARIETIES

#### SUTTON'S EXCELSIOR.

The best of the dwarf varieties. The vine is of more vigorous growth than the Nott's Excelsior, a little taller, fully as productive and matures its crop nearly as early, while both pods and peas are decidedly larger. In quality, equal to any of the dwarf varieties, all of which compare favorably with the larger and later sorts. Pkt. 25 cts., lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

#### NOTT'S EXCELSIOR.

This is one of the standard high-grade Early Peas that have established themselves with gardeners so firmly that many will take no other variety for its season. Its quality is fine, and for a wrinkled Pea, it is hardy and thoroughly reliable. It does not require staking and the pods ripen evenly, making it extremely valuable for home and market use. Pkt. 25 cts., lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.





Extra-Early Blue Bantam

**MARKET SURPRISE.** This is a smooth seeded sort and like all of this class may be planted very early. It is the earliest maturing variety to date, vines growing to a height of about 30 inches, bearing abundantly pods 3 to 3½ inches long, well filled with peas of the finest quality. Every garden large or small should give this new sort a trial. Pkt. 25 cts., 1 lb. 50 cts., 2 lbs. 90 cts., 10 lbs. or over 40 cts. per lb.

**THOMAS LAXTON.** Vine of about the same height as the Gradus, of similar and better filled with peas as large and equal in quality. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

**ROSS' WORLD'S RECORD.** A large, early, wrinkled pea with pods 3½ to 4 inches long. The pods are well filled with peas of excellent quality. The vines are vigorous, growing about 36 to 40 inches high. Peas are ready to pick 4 or 5 days before Gradus. A variety which should be in every garden. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts., per lb.

## SECOND-EARLY MEDIUM AND LATE VARIETIES

**ADVANCER.** An old popular second-early sort. Vine about 2½ feet high, vigorous and productive. Pods of medium size, broad, well filled. Peas rather under medium size, but of finest quality. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

**ALDERMAN.** This mid-season pea is tall growing, of English origin, and a few days later than the 'Improved Telephone.' The pods are very large, straight and dark green color. The vines are exceedingly vigorous and immensely prolific; of the best quality. Pkt. 25 cts., 1 lb. 50 cts., 2 lbs. 90 cts., 10 lbs. or over 40 cts. per lb.

**BLACK-EYED MARROWFAT.** An old variety. Peas large, but like all smooth peas much inferior in quality to the wrinkled sorts. Pkt. 15 cts., 1 lb. 40 cts., 2 lbs. 70 cts., 10 lbs. or over 30 cts. per lb.

**CHAMPION OF ENGLAND.** Vine 4½ to 5 ft. high, productive. Pods 2¾ to 3 inches long, broad, well filled. Peas of medium size, much shriveled, of unsurpassed quality. Pkt. 25 cts., 1 lb. 50 cts., 2 lbs. 90 cts., 10 lbs. or over 40 cts. per lb.

**DWARF CHAMPION.** A variety, claimed to be equal in quality to Champion of England. Both peas and pod are considerably larger and vine is only about 2 feet high. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

## DWARF EARLY PEAS—Continued

**LAXTONIAN.** A grand early dwarf pea. The pods of Laxtonian are very large, and are produced on a low-growing, sturdy vine, without support of any kind. Unlike many of its class, Laxtonian fills to the full its ample pods with large and luscious peas. The flavor is just as rich and good as any of the later varieties, which entitles it to a permanent place in every garden. It is ready for use just about a week later than the very early sorts, and is incomparably good in quality. It is admirable for private gardens, where its abundant crop, produced so early in the season, is extremely welcome. The plant is only 1½ feet high, branching in habit. Pods and plant are rich, dark green in color, revealing a constitutional strength which enables it to resist the extreme conditions to which peas are subjected in many sections of the United States. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

**LITTLE MARVEL.** The Little Marvel pea in size and shape all podded is very similar to the Nott's Excelsior but far more prolific. It is of exceptionally fine quality and enormously productive. The pods of this pea are about 3 to 4 inches long. It should be planted in every garden. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

**EXTRA-EARLY BLUE BANTAM.** The best first early dwarf wrinkled pea. It is unequalled for combination of extreme earliness, superb quality and unusual productiveness. The dwarf vigorous vines average fifteen inches in height and carry really enormous crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and are tightly packed with eight to ten large, deep bluish-green peas. These peas are not only large in size, but of most luscious flavor. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

## EXTRA EARLY VARIETIES OF TALLER GROWTH

**ALASKA, or EARLIEST OF ALL.** Very popular with market-gardeners due to its uniformity in ripening. Nearly the whole crop can be gathered at one picking. Vine about 2½ feet high; bears abundantly pods which, though small, are always well filled. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 25 cts. per lb.

**GRADUS.** A remarkable variety, combining earliness with peas of largest size and best quality. Matures soon after Nott's Excelsior. Vine resembles the Telephone, but is only 3 to 3½ feet high on rich land; productive. Pods 4 inches long, straight, slightly curved at end, light green, well filled. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

MULFORD CULTURE FOR GARDEN PEAS. SEE PAGE 8



Thomas Laxton





# EVERYBODY KNOWS ROSS' SEED GROWS



## PEAS Continued

**EVERBEARING.** An excellent variety of branching habit. Pods about 3 inches long and well filled. Sweet and of fine flavor. Height, 3 ft. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

**IMPROVED STRATAGEM.** Vine 24 to 28 inches of vigorous habit, with good culture, productive. Pods, 3¼ to 4 inches, broad, attractive, well-filled. Peas extra large and of finest quality. The tendency to sport has in a great measure been overcome in the improved strain which we offer. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00, 10 lbs. or over 45 cts. per lb.

**TELEPHONE.** Extensively grown. Vine 3½ to 4 ft. On good soil, productive. Pods large. Peas above medium size, of best quality. Pkt. 25 cts., 1 lb. 50 cts., 2 lbs. 90 cts., 10 lbs. or over 40 cts. per lb.

**YORKSHIRE HERO.** Vine 26 to 30 inches, stout and branching, hardy and productive. Pods 3 to 3¼ inches long, broad, well-filled with peas of largest size, mealy, and of the richest flavor. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

## Seed Potatoes grown for seed in Aroostook County, Maine

The seed stock which we offer is grown for us by the most reliable growers in Aroostook County, Me., where all good seed stock comes from. The stock is all carefully selected, free from rot and scab, and carefully packed in burlap bags holding 100 lbs. and the price we quote includes sacks.

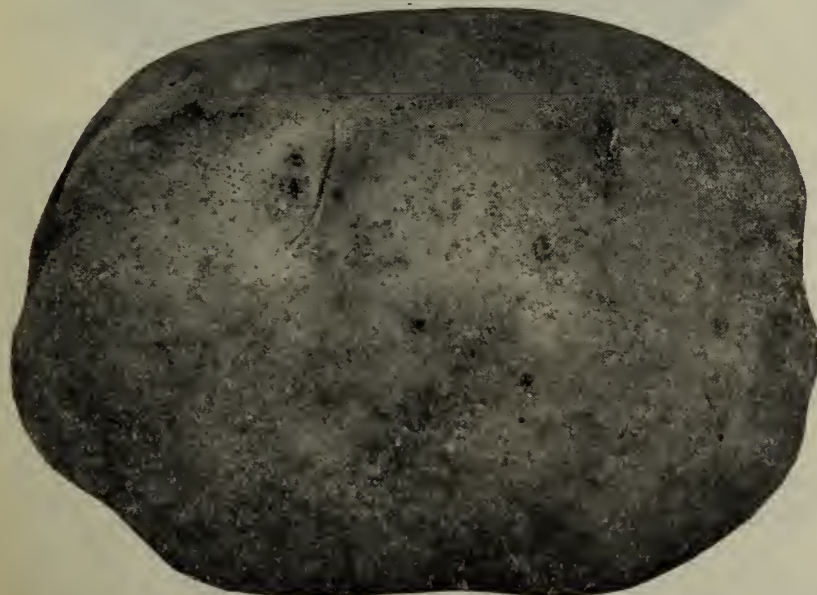
Potatoes will be shipped as soon in the Spring as the weather will permit of their being sent in ordinary cars without danger of freezing. Full carloads can be shipped at any time in heater cars.

There is no one thing that we will sell in the line of seeds that is more important to change each season than seed potatoes. As it is impossible to grow just the right quantity of each variety to supply the demand, we urgently request our customers to give us a first and possibly a second choice in case we should be out of varieties ordered, for after the season is well advanced it often happens we are sold out of a great many varieties.

**Progressive Farmers Change Seed Often  
BECAUSE IT PAYS.**

Worcester, Mass., Nov. 4, 1920.

"The Early Fairmount potatoes which we bought from you last spring were of first class quality and gave good satisfaction. We received a very good yield of potatoes."  
Thomas Horne, Supt. Worcester Home Farm.



Early Fairmount



Improved Telephone

Prices of Seed Potatoes are subject to market fluctuations and change without notice.

## EARLY FAIRMOUNT

A variety which we offered to our customers last season for the first time and we have received many good reports from them.

It is an early variety which in shape, color, size and time of ripening is very much like the Irish Cobbler; but the Early Fairmount has outyielded the Cobbler in every case where we have made an inquiry. One market gardener has said of the Early Fairmount: "The extra yield of potatoes would pay for my seed and fertilizer." This is certainly in favor of the new potato.

It is generally known that many of the large Cobbler potatoes have a cavity in the center, but in the Fairmount we have failed to find one with this defect; also the eyes are more shallow which means less waste in cooking. 25 lbs. \$1.50, 100 lbs. \$4.75, 1,000 lbs. or more \$4.50 per 100 lbs.

## IRISH COBBLER

An early, white-skinned variety, very short, thick, inclining to round. This is yearly increasing in popularity for the early market. But few varieties, if any, combine earliness, size and production in as great a degree. The crop is ready for market about ten days earlier than the Early Rose; tubers are uniformly larger and in average production of large crops it is not equalled by any of the extra early varieties nor greatly surpassed in yield by any of the main crop varieties. The vine is very stocky and vigorous, not as liable to be affected with blight or to suffer by drought as most others. No other of the early varieties is as dependable as this, and is so certain to produce a crop. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.





## SEED POTATOES—Continued

Quantities under 25 lbs. 10 cts. per lb., 50 lbs. at the 100 lb. rate.

**BURPEE'S EXTRA EARLY.** Of the finest quality and good size. Tuber, oblong, white or very pale brownish skin; few and shallow eyes. 25 lbs. \$1.50, 100 lbs. \$4.75, 1,000 lbs. or more \$4.50 per 100 lbs.

**EARLY SIX WEEKS.** An extra early variety, of good quality, cooking well as soon as it attains marketable size. In size, medium to large; color, light red or rose; form, round oblong, resembling the Ohio, and having the speck peculiar to the Ohio type. Keeps well. A good yielder. 25 lbs. \$1.50, 100 lbs. \$4.75, 1,000 lbs. or more \$4.50 per 100 lbs.

**EARLY ROSE.** The standard early variety; color red; medium size, not inclined to grow large but a good seller in any market. 25 lbs. \$1.50, 100 lbs. \$4.75, 1,000 lbs. or more \$4.50 per 100 lbs.

**SPAULDING (ROSE) NUMBER FOUR.** The potato is medium early, and practically free from blight and rot. It yields well in all climates and is in one section of Florida being planted almost exclusively. In color it resembles the Early Rose, perhaps a trifle lighter. In shape it is somewhat similar, but inclines to the oblong and is thicker. It is an attractive variety and of good quality. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.



New Queen

**NEW QUEEN.** Similar to the Beauty of Hebron but considered by many as being a better cooker. Next to Cobbler, this is the best early kind for general crop. 25 lbs. \$1.50, 100 lbs. \$4.75, 1,000 lbs. or more \$4.50 per 100 lbs.

**NORCROSS.** A white-skinned variety which through the result of crossing two early varieties—Early Rose and Beauty of Hebron—matures at about the same time as the Green Mountain and is a worthy rival of that popular variety in productiveness. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.

**GOLD COIN.** Productive and of unsurpassed quality. Very uniform in size, never over large, but few small tubers. Form oblong, rather broad and thick. Skin almost white with just enough of a light golden tinge to make it distinct from the white-skinned varieties, and having that rich russet appearance generally considered an indication of good quality. Vine of strong, vigorous growth, not easily affected with blight. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.

**CARMEN NO. 3.** A handsome, round, white variety of the best quality; large, almost no small tubers. Claimed by the introducer to outyield any potato of its class. Vines large and vigorous, not troubled by bugs or blight as much as those of other sorts. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.75 per 100 lbs.

**GREEN MOUNTAIN.** A white skinned variety of flat, oval form, smooth and attractive. Ripens slowly and is a good keeper. Quality excellent when well grown. This variety has been growing in popularity and is now the leader of all varieties for general crop. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.

**ROYAL RUSSET.** This is a handsome white variety; the tubers are oval shaped, with a light russet skin, very even in outline and with shallow eyes. The blossom shows a distinct purple tinge. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.

**DELAWARE.** (Late.) Vines are strong and vigorous; tubers are large, smooth, white and excellent quality. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.



Green Mountain

**UNCLE SAM.** We believe it to be the heaviest yielding variety grown. On a loam or sandy soil it is a wonder in yield and quality. The crop averages remarkably regular in size and shape. The tubers are oval shaped, with light russet skin, very even in outline and with shallow eyes. Its handsome appearance and perfect form always ensure a fancy price on the market. 25 lbs. \$1.40, 100 lbs. \$4.50, 1,000 lbs. or more \$4.25 per 100 lbs.

## HYBRIDIZED POTATO SEED

From the Seed Balls—Headquarters Stock

Millions never saw a Potato Seed Ball. Thousands have tried in vain to get the seed. Now is your opportunity. This unrivaled seed will produce an endless variety of new kinds. Your fortune may be in one of them. They are as easy to grow as tomatoes.

It is from these that ALL valuable new varieties of Potatoes are produced.

Growing new and distinct Seedling Potatoes from the Seed-Ball is intensely interesting. They will be the greatest curiosity of your garden. This seed will positively produce innumerable new kinds, colors, shapes, sizes, and qualities. The product will astonish you. Some may be of immense value and bring you a golden harvest. Packet with full directions for growing 15 cts., 4 for 50 cts., 10 for \$1.00.

Best Eating Potato—Immensely Productive

"I selected the earliest and best of 30 Seedlings grown from your seed, planted them alongside Early Ohio, Early Rose, and Beauty of Hebron. They are now—July 12—fully ripe, while all the others are green. Are immensely productive—the best eating potato I have. I expect to have 200 bushels." Jessie Green, La Salle Co., Ill.

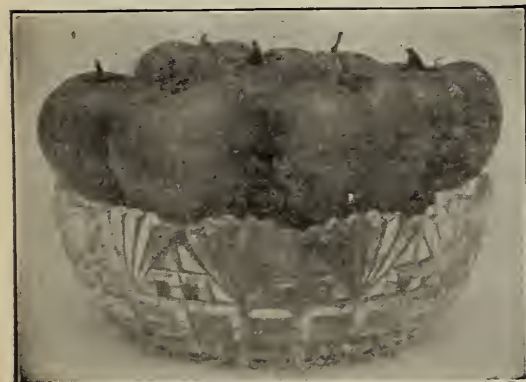


Photo of Potato Seed Balls—One-half Natural Size





# EVERYBODY KNOWS ROSS' SEED GROWS



## RADISH

An ounce will sow 100 feet of drill.

Radishes are now grown the entire year, and may be sown when desired in hotbeds with moderate heat, either in rows 6 inches apart or broadcast. Soil should be light and rich, preferably new soil and fine rotted turf and commercial fertilized. Seed may be sown outside very early, as soon as ground can be worked, in rows, 6 to 12 inches apart, as desired, and one-half inch deep. For our own use, we prefer that plants shall be thick, commencing to use roots when twice the size of a large pea and only thinning when plants are so crowded as to prevent the formation of roots of a size suitable for use. Grown in this way and used from the size noted to that of a small marble, roots are tender and crisp and never have the thick skin, so generally a feature of those found in our markets. If desired for some time, seed should be sown at intervals of two to three weeks. As with the hotbed, soil should be light and rich, if possible, that which has recently been in grass. Avoid the use of both fresh manure and soil on which either radishes, turnips or cabbage were grown the previous year. Commercial fertilizers are much preferable and especially is nitrate of soda valuable in stimulating rapid growth, without which radishes are tough and stringy.

**EARLY SCARLET GLOBE** is a very early globe-shaped radish suitable for forcing or open ground. The radishes are of handsome shape, attractive bright red, and are crisp, solid and of the finest quality. They grow so rapidly that under favorable circumstances they may be pulled 20 days from sowing the seed. This is the most popular variety for forcing. Our seed is of the very finest strain, grown from transplanted roots, and will be found unsurpassed.

Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**CRIMSON GIANT.** An early but large, round or slightly globular radish adapted for either forcing or outdoor cultivation. While it grows much larger than other forcing varieties it does not become pithy under glass, nor outdoors even when it is twice as large and older. Beautiful crimson-carminé, attractive and of fine quality.

Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**CHINESE ROSE WINTER.** A popular winter variety, roots cylindrical, slightly larger at the bottom, terminating abruptly. Grows about one-half above ground. Color of upper part scarlet, shading to rose in lower portion. 6 to 8 inches long.

Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**EARLY SCARLET TURNIP.** A small, round variety, with small tops; quick grower. Popular for forcing and outdoors. Deep scarlet.

Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**EARLY SCARLET TURNIP, WHITE-TIPPED.** Root nearly round, slightly flattened at bottom, bright scarlet with tip of clear white, early and attractive; suitable for forcing and outside planting.

Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**EARLY LONG SCARLET, SHORT-TOP.** Once the most popular radish, but has been largely displaced by the round varieties. 6 to 8 inches long, ready to pull in twenty-five to thirty days from sowing.

Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**EARLY WHITE GIANT STUTTGART.** Root large, clear white, often 4 inches in diameter, does not become pithy until very late. Those not used for summer radish can be stored for winter use.

Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts., lb. \$2.50.

**FRENCH BREAKFAST.** A stump-rooted radish about 3 inches long. Bright scarlet, tipped white. An old favorite for home garden. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**LONG BLACK SPANISH WINTER.** One of the hardiest and best for winter use. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**NON PLUS ULTRA, or DEEP SCARLET FORCING.** One of the earliest; top very small especially suited for forcing. Color deep rich red, form globular. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

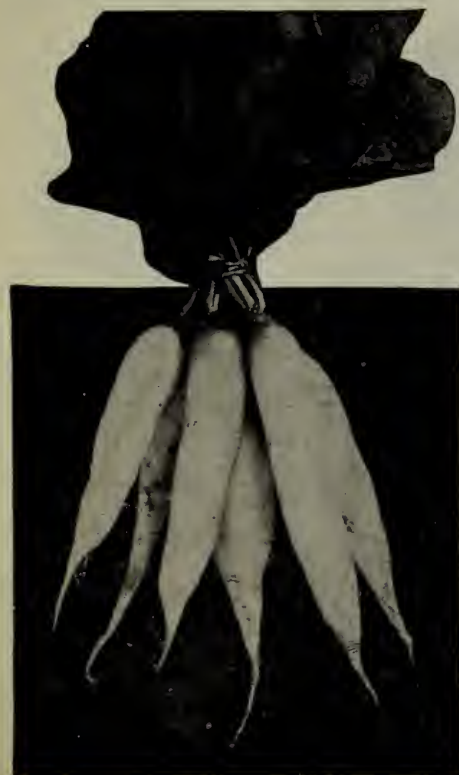
**ROUND BLACK SPANISH.** White flesh with black skin. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**WHITE ICICLE.** The earliest pure white, long, summer radish of most excellent quality. Roots when matured are 5 to 6 inches long by about  $\frac{1}{2}$  inch in diameter. One of the best outdoor summer radishes. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**WHITE STRASSBURG.** A fine summer variety, growing about 4 inches long and 2 inches thick. Pure white. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.



Radish, Scarlet Globe



Radish, White Icicle

## RHUBARB OR PIE PLANT

An ounce should produce 100 plants.

The roots can be raised from seed sown in the spring, and are ready to transplant to the permanent bed the next spring. The seed must be sown in fine, rich soil, and the seedlings must have good care.

**VICTORIA.** The most popular variety, fine for family use and market. Comes quite true from seed. Pkt. 10 cts., oz. 50 cts.,  $\frac{1}{4}$  lb. \$1.35.

**RHUBARB ROOTS.** Sent by express at buyer's expense. 25 cts. and 50 cts. each, according to size of clump.

## SALISFY OR VEGETABLE OYSTER

An ounce will sow 50 feet of drill.

Sow early and deeper than parsnip, otherwise culture is the same and like that, roots, if desired, may be left in the ground through the winter, but should be dug very early in the spring, as they deteriorate after growth commences.

**MAMMOTH SANDWICH ISLAND.** Larger, of stronger growth, and less liable to grow spongy than the old Long White. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 90 cts.

WE PAY POSTAGE ON ALL FLOWER AND VEGETABLE SEEDS BY THE PACKET, OUNCE, QUARTER POUND AND POUND. ADD POSTAGE ON LARGER QUANTITIES.





## Spinach

An ounce will sow 50 feet of drill, 14 to 16 pounds to the acre.



Early Giant Thick-Leaved Spinach

**Culture.**—For spring and summer use sow in drills 1 foot apart and 1 inch deep, as early as the ground can be worked, and every two weeks for a succession. For winter and early spring use, sow in September in well-manured ground; cover with straw on the approach of severe cold weather. The ground cannot be too rich. The stronger the ground the more delicate and succulent will be the leaves. The New Zealand Spinach, which requires more room, as it makes a large and spreading plant, may be started from seed early in the spring to give greens during the heat of summer. Light applications of nitrate of soda have often a magic effect on Spinach.

**ROUND THICK-LEAVED.** Leaves, large, thick, fleshy and slightly crumpled. Extensively grown and used for both spring and fall sowing. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

**EARLY GIANT THICK-LEAVED.** Leaves very large and thick, deep green, attaining a size suitable for use earlier than the preceding and plant grows to a larger size before running to seed. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

**LONG SEASON.** A new variety claimed to surpass all other in its ability to withstand hot weather without running to seed. Leaves very dark green, much crumpled, thick, tender and succulent. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

**LONG STANDING.** A variety which matures early and remains in condition for use longer than most others. Leaves smooth, rich, dark green. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

**VICTORIA.** Leaves large, thick, very dark green, slightly curled in the center. A little later than Long Standing, but surpasses it in the desirable feature of remaining in condition for use for a long time. Especially desirable for spring sowing. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

**SAVOY-LEAVED, or BLOOMSDALE.** The earliest variety and used almost entirely for fall sowing, as it runs quickly to seed in warm weather. Leaves of medium size, dark green, pointed and crimped. Pkt. 5 cts., oz. 10 cts.,  $\frac{1}{4}$  lb. 30 cts., lb. \$1.00.

## Squash

An ounce of small seeded varieties will plant 25 to 30 hills; of the larger-seeded varieties, 12 to 15 hills.

The Squash is very tender and should not be planted until all danger of frost and cold nights are passed. It thrives best in warm soil which can hardly be made too rich; manure should be worked well into the soil over the entire area, and hills should have a liberal quantity of that which is well rotted. To avoid borers it is more or less the custom to plant as late as possible and is often done as late as the middle of June; in such case, an application of commercial fertilizer or nitrate of soda greatly hastens the first growth. The early bush varieties are generally planted in hills about 5 feet apart, and the running varieties about 10. Thin to three plants to the hill.

**BLUE HUBBARD.** The Symmes Blue Hubbard is an entirely distinct variety, resembling the Watted Hubbard in shape. It is a pale light-blue color, very thick meated, dry and very sweet, its eating qualities cannot be surpassed. The Blue Hubbard is an exceptional heavy cropper, producing an extraordinary number of squashes, which, though not of the largest, are of even size, thus making it very easy to handle and market. It has excellent qualities, keeping with proper storage much longer than the Delicious. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 90 cts., lb. \$3.00.

**GOLDEN HUBBARD.** A distinct sort, of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and a rich orange-red instead of the dark olive-green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine grained and dry. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.

**HUBBARD.** A well-known and favorite winter variety, more largely grown than any other. We offer a choice strain, considered by some of our customers to be superior to the popular Chicago Hubbard. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.



Blue Hubbard

**ITALIAN VEGETABLE MARROW.** Vines of bush habit, producing large, much elongated fruits. Dark green at first but becoming marbled with yellow as they mature. The young fruits when fried in oil constitute a vegetable delicacy very popular. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**FAXON.** A very desirable variety for the home garden, very productive, of medium size (five or six pounds), fine grained, dry, sweet, a good keeper, uniform in shape, but varied in color. This variation in color is a distinct feature of the squash. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.

**BOSTON MARROW.** This grows larger than either the Prolific or Orange Marrow, but is not of so deep color. Skin, thin, yellow, with pinkish tint. Desirable for pies, not so dry as the Hubbard. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.

**CHICAGO, or WATTED HUBBARD.** A selection of the Hubbard, with thickly watted shell. Equal in quality to that and generally considered to be of more attractive appearance. Of this also we offer a carefully selected strain unsurpassed by any we have ever seen. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts., lb. \$2.50.



Three Green Hubbards grown by Frederick Midgley & Sons





# EVERYBODY KNOWS ROSS' SEED GROWS



## SQUASH—Continued

**DELICIOUS.** A fall and winter variety. Color, usually dark green but sometimes lighter in color and mottled; shell, moderately hard but very thin; flesh, thick, very fine grained, sweet and of finest flavor. Even when not quite mature is in condition for use and of good flavor. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts., lb. \$2.50.

**EARLY SUMMER CROOKNECK.** For early planting the Crookneck type is used in New England to almost the exclusion of any other. This, while much smaller than the Mammoth Crookneck, is yet largely grown, many considering it of better flavor. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.

**ESSEX HYBRID.** A cross of the Hubbard and Old Turban, partaking somewhat of the features of both. Like the Hubbard, it is hard-shelled. In color it is like the Turban, but greatly improved in form. Flesh, thick, solid and of good quality. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.

**MAMMOTH SUMMER CROOKNECK.** Vine larger and of more vigorous growth than the Summer Crookneck and fruit is twice as large, and deeper colored. Its large size and attractive appearance have made it popular with market-gardeners. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.

**MAMMOTH CHILLI.** The largest variety, attaining under high cultivation an enormous size. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**MAMMOTH WHITE BUSH SCALLOP.** An improvement on the old variety; larger, pure white and superior in quality. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts.

**ORANGE MARROW.** An early variety, much like the Prolific Marrow in color and pitting, but is more nearly round, later, much thicker, meatier, and of better quality. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts.



Squash Delicious

**PROLIFIC MARROW.** The earliest fall variety, from a week to ten days earlier than any other Marrow. Color, deep orange; skin considerably pitted. Not so thick-meated as the Orange Marrow, not quite equal in quality, but especially desirable on account of its earliness and also because it is very prolific. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts.

**THE WARREN.** Has a shell generally harder and thicker than the Essex Hybrid and the color is a deeper and richer orange while the quality is decidedly better. The Warren is now grown very extensively by market-gardeners. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts., lb. \$2.50.

## Tomato

An ounce will produce about 2,000 plants

The Tomato succeeds best in light, warm soil, of medium fertility. Strong and rich soil tends to an overgrowth of vine, and if such is the only available soil, the vines would better be trained to stakes and pruned. And this method is an excellent one for any soil, as the fruits kept from the ground by pruning, are more open to the sun and ripen earlier, and the vitality, otherwise exhausted in unnecessary growth, is utilized in forming fruits of larger size, more nearly perfect in shape and of better quality. If this plan is adopted, select, when plant is about 10 inches high, the strongest branch and pinch off all others except this and the main stem. Care should be taken that the fruiting stems are not pinched off. Such, however, can soon be distinguished, as the buds form early. As the two stems grow, they should be tied at intervals of 8 to 10 inches to a stake driven deeply into the ground and which should be at least 6 feet high, as all varieties, except those of dwarf habit, will grow about as tall as this, and the most vigorous often much taller. The side branches which continue to start should be trimmed off. Seed should be sown in the hotbed or in the house in boxes, from six to eight weeks before time to set plants in the open ground, which, in this latitude is usually close to the first of June. When the plants have attained four leaves, transplant into the cold-frame, or, if seeds were sown in the house, into shallow boxes, allowing about four inches between the plants. Strong, stocky plants at time of setting can be obtained only by an unchecked growth, especially in the first stages, and plenty of air at all times. The dwarf sorts should be set in rows about 3 $\frac{1}{2}$  feet apart, and 2 $\frac{1}{2}$  feet apart in the row; the stronger growing varieties in rows 4 to 5 feet apart and at a proportionate distance in the row, unless intended to be staked and pruned, when they may be set somewhat closer.

**ACME.** Vine hardy and productive. Fruit in clusters of four or five, round, smooth and of good size; flesh, solid and of excellent flavor. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.

**BONNY BEST.** This tomato has been tested and found eight to ten days earlier than the Chalk's Early Jewel and ripens about with the Earliana. Very strong grower and the fruit is uniform and smooth; ripens evenly all over, excellent shipper. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.

**CHALK'S EARLY JEWEL.** A second or medium early sort. Later than Earliana. Vines vigorous and productive. Fruit solid and without hard core. Color, bright scarlet. A sort having great merit. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.

**COMET.** Fruit medium size, scarlet. The heaviest yielder of the green-house sorts. Pkt. 15 cts.,  $\frac{1}{2}$  oz. 60 cts., oz. \$1.00.

**DWARF CHAMPION.** Sometimes sold as the "Tree Tomato."

A second early, purplish pink variety, especially desirable where garden space is limited. Vine about two feet high, vigorous, upright and compact. Fruits, medium sized, exceptionally smooth and of

**BEAUTY.** Vines large, vigorous and heavy bearers; fruit, large, uniform in size, very smooth, and excellent flavor; color, purplish pink. The best purple sort. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.



Beauty Tomato

very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## TOMATO—Continued

**DWARF STONE.** Vine dwarf but vigorous and productive. While maturing with the later sorts the bright red fruits are of good color, exceedingly smooth and very solid. We consider this the best of the large fruited, dwarf tomatoes. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**EARLY DETROIT.** This is considered the largest and best of the purple varieties. Vine is vigorous and very productive; fruits are purplish pink, smooth, uniform in size and are nearly globe shape. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**GOLDEN QUEEN.** A very attractive yellow variety. Fruit large, smooth, solid and we think of richer flavor than any of the standard varieties. Should be more largely grown for home use. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

**IMPERIAL.** Fruit large and very attractive, resembling the Beauty; is not quite so large, but ripens a little earlier, is always smooth and not surpassed in quality. Vine vigorous and remarkably productive. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**JUNE PINK.** An extra early, purplish pink tomato similar to the popular scarlet fruited Earliana in growth of vine, shape and size of fruits and time of maturing. This is a variety of exceptional value to market gardeners who want an early, purplish pink tomato, either for home market or to ship; also desirable for planting under glass. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**JOHN BAER.** An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early and are also most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the earliest to ripen and it continues to furnish marketable fruits much longer than the other very early varieties. It is a very valuable sort for market gardeners use. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**LIVINGSTON'S GLOBE.** A large, purplish pink, globe-shaped or very nearly round tomato of excellent quality. Vine very vigorous and productive. Fruit rather uneven in size but very smooth and matures a little earlier than most main crop varieties. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**MATCHLESS.** A large, smooth, bright red variety of excellent flavor, ripening well to the stem. Used in the east to quite an extent for main crop. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**PERFECTION.** A smooth, blood red tomato. Ripens with Acme, and a week or ten days earlier than the Stone. A desirable sort for gardeners and canners who require a red tomato. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**PONDEROSA.** This is one of the largest smooth tomatoes. Color, deep purple. The fruit is exceptionally solid, having but few seeds and is quite free from acid. It is also an ideal variety for shipping. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.50.

**RED PEAR.** Fruit bright red, rather small, distinctly pear-shaped; of rich flavor and used largely for preserving. The stock we offer is the true pear-shaped, not the large red plum often sold for it. Pkt. 10 cts.

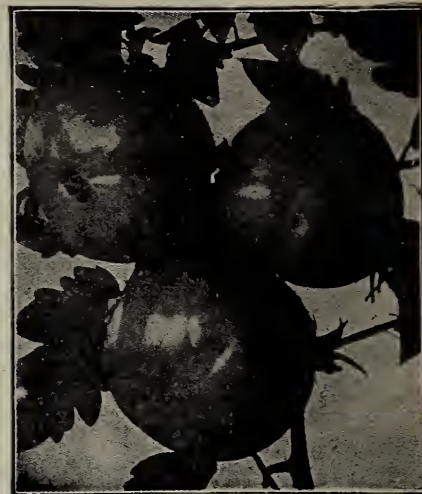
**SPARK'S EARLIANA.** A deep red tomato. The vines are compact in growth, with short, close-jointed branches. This is an extra early tomato and the best so far produced. Very productive. Fruit fair size and firm. In test it ripened fruit in 108 days from date of sowing seed. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**STONE.** Vines vigorous and productive; fruit, large, smooth, deep red in color, and heavy. The best all around variety, where earliness is not important. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**YELLOW PEAR.** Identical with Red Pear, except in color. Clear rich yellow. Pkt. 10 cts.

**YELLOW PLUM.** Small, plum-shaped fruit of rich flavor. Desirable for preserving and pickling. Pkt. 10 cts.

**YELLOW HUSK,** or **STRAWBERRY.** Fruit about the size of a small cherry, borne in husks; of very rich flavor; used only for preserves. Plant also distinct. Pkt. 10 cts.



John Baer



Dwarf Stone

## Turnip

An ounce will sow 150 feet of drill. If sown in drills one pound is required for an acre; if sown broadcast less seed is sufficient if sown evenly.

Turnips thrive in well-enriched, medium to light soil, succeeding best on land that was shortly before in grass, enriched at time of sowing with a liberal application of commercial fertilizer. They should not be grown on the same land two years in succession nor should they follow a crop of cabbage or radish. For early use seed should be sown as soon as ground can be prepared, so that the roots will be of sufficient size before hot weather, which makes them tough and stringy. The main need for early varieties is for especially late planting, while for a long time it was held that July 25 was the latest date at which Turnips could profitably be sown, more seed is now sown as late as September 1. The roots are much sweeter if they do not attain their size until after several hard frosts. The above regarding the time of sowing applies only to the English or common Turnips; the Swedes or Rutabagas, requiring a longer season, should be sown not later than July 15. The rows of the English varieties should be from 1½ to 2 feet apart and plants thinned to 4 to 7 inches, according to variety and its top-growth. These varieties are often sown broadcast and too often too much seed is used; a half pound is sufficient for an acre if sown evenly. The Swedish varieties require more space, rows should be at least 2½ feet apart and plants should not be nearer than 10 inches. Seed of this class should never be sown broadcast.

**EARLY SNOWBALL.** Pure white, round, of medium size. Ready for the table six weeks after planting. Of fine quality. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.10.

**EARLY WHITE MILAN.** Roots flat, smooth and symmetrical, pure white. Top very small, upright, and compact, permitting close planting. The earliest and much the best of any extra early white variety. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

**EARLY PURPLE-MILAN.** Differs from the preceding in that the roots are not quite so thick and are purple on top. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.



Early Purple Top Flat





# EVERYBODY KNOWS ROSS' SEED GROWS



## TURNIP—Continued



White Egg and Yellow Globe

**EARLY PURPLE-FLAT.** A well-known variety and very extensively grown. Roots smooth, white, with the upper portion purplish red. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.10.

**EARLY PURPLE-TOP WHITE GLOBE.** One of the handsomest varieties, the upper portion of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.10.

**WHITE EGG.** More extensively grown than any other variety. White, egg-shaped, smooth and symmetrical, of medium size; flesh firm, sweet and mild. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.10.

**GOLDEN BALL, or ORANGE JELLY.** Of globular form, medium size, skin rich orange; flesh, pale amber, very fine-grained, mild and sweet. One of the most attractive, of the best quality and keeps well. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 60 cts., lb. \$2.00.

**YELLOW GLOBE.** The standard yellow variety. The form is round, slightly flattened. Largely grown for stock, and to some extent for market. An excellent keeper. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.10.

**COW HORN, or LONG WHITE.** Root long, slightly crooked and grows nearly half above ground. Clear white, except a little green at top. Though more largely used for feeding stock, it is a fine table variety, being tender, and of mild flavor. Of very rapid growth. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.10.

## Swedish, Russian or Rutabaga

**SWEET RUSSIAN.** An old variety, yet largely grown, mainly for table use. Sweet and mild. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.25.

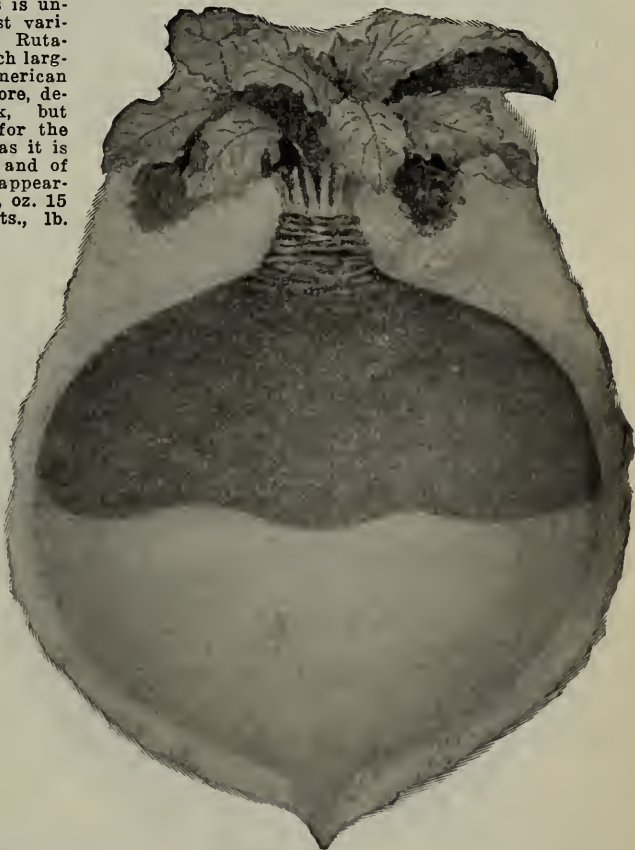
**WHITE FRENCH, or ROCK.** Also an old and popular sort. Roots a little longer than Sweet Russian, but does not otherwise differ. Valuable for table or feeding. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.25.

**BUDLONG.** Originated in Rhode Island by Mr. Budlong, a very extensive grower of Rutabagas. Earlier and more nearly round than other white varieties of this class. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.25.

**BREADSTONE.** An early variety, white, faintly colored at top; medium size, tender mild and sweet. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.25.

**SHAMROCK.** A popular English Yellow Swede. A decided favorite with our local trade. Has short neck, shape oblong. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.25.

**LONG ISLAND IM PROVED.** This is undoubtedly the finest variety of Purple-Top Rutabaga. It grows much larger than other American varieties, is, therefore, desirable for stock, but equally desirable for the table and market, as it is tender and sweet, and of very attractive appearance. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.25.



Long Island Improved

## TOBACCO

**CONNECTICUT SEED LEAF.** A hardy cigar variety, well adapted to growing in the Middle and Northern State. Pkt. 10 cts., oz. 40 cts.

**HAVANA.** Leaf very thin, fine texture. Much used for cigar wrappers. Pkt. 10 cts., oz. 40 cts.

Prices on quantities above one pound are not postpaid. If wanted by Parcel Post, send postage at Zone Rates.

## VEGETABLE PLANTS AND ROOTS

By express only. Write for prices.

### ASPARAGUS ROOTS

	100	1000
Columbian Mammoth, 2 years.....	\$1.20	\$11.00
Giant Argenteuil, 2 years.....	1.20	11.00
Palmetto, 2 years.....	1.20	11.00

**WASHINGTON ASPARAGUS.** See page 22.

**CABBAGE PLANTS.** Best varieties. **CELERY PLANTS.** Leading varieties.

**CAULIFLOWER PLANTS.** Snowball. **PEPPER PLANTS.**

**TOMATO PLANTS.** All the leading varieties.

### RHUBARB ROOTS

Victoria, small roots, 25 cts. Victoria, clumps, 50 cts.

### ASTER PLANTS

American Branching. Pink. American Branching. White.  
American Branching. Mixed. American Branching. Lavender.

**HOLLYHOCK ROOTS.** Single and double mixed.

**DELPHINIUM ROOTS.**

**SALVIA PLANTS.**

West Brookfield, Mass., Oct. 15, 1919.

Ross Bros. Co., Worcester, Mass.

Dear Sirs:—

You probably would be interested in the attached photo of some turnips grown from your seeds; the crop is almost perfect in shape and taste. I expect 2000 bushels of Yellow Globe and 600 bushels of White Egg. Yours truly,





## Selected List of Flower Seeds

Though some seeds need special treatment, the following general directions for outdoor culture apply to all. Make the soil fine and even by digging and raking. Though seeds should not be sown nor ground worked when it is wet and soggy, moisture is essential to the successful germination of seeds; therefore sow only on freshly worked soil. Sow in rows that the young plants can be easily seen, and each lot of seeds at a uniform depth, which should generally be four to six times the diameter of the seed. Make the soil over the seeds firm. This is very important, as it prevents, to a great degree, the escape of moisture. If weather following is hot and dry, it may be necessary to water. Water thoroughly; and, once commenced, regularly or not at all.

Some plants do not bear transplanting well, so seeds should be sown where plants are to remain. Seeds of most plants may, however, be sown in beds and the young plants transplanted, if desired. Transplanting is, of course, more easily done in rainy weather, but, if necessary, can be safely done in hot, dry weather by giving the soil a good soaking, and then shading the plants for a few days. Give frequent but shallow cultivation. Shallow cultivation conserves moisture by converting the top soil into a fine mulch.

### HOW TO ORDER

When ordering, always give catalogue variety number; and while it is not necessary to give name it often serves to indicate more fully what the customer desires, as in the event of the number and name differing, we always send the variety indicated by the name as probably the one desired. All flower seeds mailed free on receipt of price quoted.

Plants are usually divided into three classes, Annuals, Biennials and Perennials. Annuals are plants which normally live but a single season. Biennials are plants living two years; particularly those which do not bear flowers and fruit until the second season. Perennials tend to live from year to year. Half-hardy Biennials and Perennials require winter protection of plants. Sow part of your seed early and make frequent sowings, so that when the soil becomes warm and mellow you will be ready to set out strong, well developed plants, neither too young nor too old.

### Asters One of the very best Annuals for cut-flowers

The Aster is of easy culture and very popular. Plants from seed sown in the open ground in May bloom finely in September and October. For July and August flowers sow in March or April in coldframe, spent hot-bed, or in pots or boxes in the house. Cover the seeds about half an inch deep with rich, light soil, and when the plants have three or four leaves transplant about 18 inches apart each way into well prepared beds. Manures too fresh or used in too large quantities sometimes induce disease in Asters. When used they should be thoroughly well decayed and mixed with the soil.

#### PEERLESS YELLOW

Without doubt the most satisfactory yellow yet produced. While not as striking as its more brilliantly colored cousins, its delicate hue of pure sulphur yellow, endears it at once to every true lover of beauty. The flowers are large and remarkably full and ball shaped, with centers deeply covered with curled and twisted florets.

The plants are of branching type and very vigorous. It is not unusual to find a plant with from twenty to thirty good flowering stems sufficiently long and with flowers of ample size for extra fancy cut flower purposes. So numerous and large are the flowers that the plants are completely covered like a golden dome. In a bed the plants will easily fill two foot rows. In a border a single row is ample. It is certainly a winner in its class and color. Pkt. 25 cts.



Aster, Peerless Yellow



Aster, Heart of France

#### A WONDERFUL ASTER HEART OF FRANCE

The best pure red Aster ever introduced. All others have sombre shades of blue or too much yellow in the color pigments. Heart of France opens red as the purest ruby, deepens with age and retains its remarkable beauty to the very end. The petals appear strikingly changable, showing now a glow and sheen quite unique, now a soft warm velvety texture. In any light, natural or artificial, Heart of France is startlingly beautiful and will command instant admiration.

The flowers are large and full with never a trace of hollow center. The plants are of branching type and very robust habit. The stems are long and strong and have very many laterals. Pkt. 25 cts.

#### PINK ENCHANTRESS

This splendid Aster, introduced recently, is highly commended, and large quantities are grown annually by commercial florists. The immense flowers of a soft, delicate pink, are borne on strong, upright plants. The color is that of the popular "Pink Enchantress" Carnation. In Asters, the color is between that of Daybreak and the Semple's Pink Branching and although very delicate, does not fade. In size the flowers are equal to those of the largest Branching Asters. They are made up of broad petals, loosely arranged, and the effect is indescribably soft and pleasing. Nothing could excel in refined beauty a vase of Pink Enchantress Asters. The plants, of upright type, are tall and strong. Pkt. 10 cts., 1/2 oz. 60 cts., 1/4 oz. \$1.10.





# EVERYBODY KNOWS ROSS' SEED GROWS



## ASTERS—Continued

- 1 **QUEEN OF THE EARLIES**, or **EARLIEST PARIS WHITE**. One of the earliest white Asters; stems long; fine for cutting. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.
- QUEEN OF THE MARKET**. A very early-blooming strain, which, though plant is only  $1\frac{1}{4}$  feet high, bears from ten to fifteen well-formed, medium-sized flowers on long stems. Much used by florists.
- 4 White. 5 Rose. 6 Light Blue. 7 Pink. 8 Crimson. 9 Mixed Colors. Each, Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.
- 15 **EARLY SNOWDRIFT**...An extra-early variety. Plant of slender growth, having but few and narrow leaves, bearing in profusion on long, upright stems, large pure white flowers of very feathery and graceful appearance, and always full and double. Of American origin. Originator's stock. Pkt. 15 cts.
- 20 **DAYBREAK**. Flowers very large and full, and borne on long stems, color a beautiful shell-pink. The plant blooms early and profusely, and is of strong and compact habit. Very popular. 2 feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.
- 21 **PURITY**. Pure White. A desirable companion to Daybreak. Identical in form of flower and general habit. Blooms at the same time. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.
- 23 **LAVENDER DAYBREAK**. Soft, clear lavender. Of same type as Purity and Daybreak. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.
- VICTORIA**. Considered for a long time one of the finest types, and improved in recent years. The flowers are large, double, imbricated, having petals which curve outward like those of the show dahlias. Bears freely, beautiful long-stemmed flowers.
- 62 **Mixed Colors**. A superb mixture. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.
- GIANT BRANCHING COMET**. Distinct and valuable; flowers resemble the Japanese chrysanthemum. Not only larger, but petals are longer and somewhat broader than the old Comet section. The plant is of vigorous, luxuriant growth and produces freely its long-stemmed, graceful flowers.  $1\frac{1}{2}$  to 2 feet.
- 70 White. 71 Light Yellow. 72 Azure-Blue. 73 Rose. 74 Lavender. 75 Crimson. Ea., pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts. 80 Mixed Colors. Many colors and shades. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.



Pink Enchantress



Giant Branching Asters

- 81 **MIKADO PINK**...In type, Mikado Pink belongs to the Comet class. Petals are narrow, very long and gracefully reflexed. In color it is a most exquisite shade of shell-pink. Strong-growing, free-branching, long-stemmed plants. In growth these plants are unusually vigorous for their type. It is not uncommon to find plants with a dozen long, strong, graceful stems, each crowned with flowers from  $4\frac{1}{2}$  to 6 inches in diameter. Pkt. 15 cts.,  $\frac{1}{8}$  oz. 60 cts.
- 82 **MIKADO WHITE**. Similar in every respect to Mikado Pink except color, the flowers having the same deep, fluffy form and the plant the branching habit ascribed to the above. Blooms at the same season. Each is the best of its color in the Comet class. Pkt. 15 cts.,  $\frac{1}{8}$  oz. 60 cts.
- CREGO**. This splendid strain of Asters have large flowers, with long, narrow, loose petals of the Comet type and grow in a variety of beautiful colors. The plants are of the branching family and are very vigorous and productive. They bloom in mid-season or just before the Late Branching and present a most pleasing spectacle in the garden.
- 95 Shell Pink. Pkt. 15 cts.
- 96 White. Pkt. 15 cts.
- 97 Purple. Pkt. 15 cts.
- 104 **LAVENDER GEM**. Of the Ostrich Feather type. Flowers large and remarkably free from single and semi-double specimens. The feathery effect is increased in a large proportion of the flowers by long, partly tubular florets, irregularly cut and slashed. The color is an exquisite shade of lavender, which deepens with age. The plant branches close to the ground and blooms profusely and very early. 2 feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.
- AMERICAN BRANCHING**. A superior late-blooming strain of American origin. The flowers are of the largest size, borne on long, graceful stems, often 15 or more inches in length, are exceedingly beautiful and unsurpassed for cutting. The plants are of extra large and strong growth, and bloom profusely.  $2\frac{1}{2}$  feet.
- 108 White. 109 Pink. 110 Lavender. 111 Crimson. 112 Purple. Each, pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts., oz. \$3.50.
- 116 **Mixed Colors**. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts., oz. \$3.50.
- 117 **VIOLET KING**. In habit similar to the American Branching. The flowers are entirely distinct from any other, petals somewhat resemble those of the quilled sorts, but are much larger, those in the center being curiously twisted, curled and incurved, completely covering the crown. In shape and size, round, full, and very large, often 4 and 5 inches in diameter; color, soft violet-lilac. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.
- SEMPLE'S BRANCHING**. The plants of this Early Branching Aster attain the size and vigor of the famous American Branching, but blossom from 10 days to 2 weeks earlier. Extra large, perfectly formed flowers on long stiff stems make them especially desirable for cutting, for exhibitions or for sale.
- 118 Lavender. 119 White. 120 Shell Pink. 121 Crimson.
- 122 Mixed. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts.
- 124 **WORCESTER MIXTURE**. Our own mixture of the leading choice varieties, includes every color and shade known among Asters, and will afford, especially if purchased in bulk, the greatest diversity of both colors and types. Purchasers of a single packet may be certain of securing a choice collection of desirable varieties. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts., oz. \$3.50.





## ASTERS—Continued

125 **GOOD MIXED.** Our own mixture of many varieties; a wide range of colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.,  $\frac{1}{4}$  oz. 50 cts., oz. \$1.75.

**ASTERMUM.** A strain of Giant Comet Asters which, on account of their immense size and Chrysanthemum-like appearance, have appropriately been named Astermums. The plants grow about 2 feet high with long, strong stems and should come into bloom about the middle of August.

126 White. 127 Pink. 128 Lavender. Pkt. 15 cts.

## ABRONIA

A beautiful little trailing plant, bearing freely in the autumn months verbenalike fragrant flowers. Sow in the house and transplant, or very early in the open ground. Hardy annual.

130 **ARENARIA.** Yellow. Pkt. 5 cts.

131 **UMBRELLA.** Rose, white eye. Pkt. 5 cts.

## ACHILLEA

135 **PTARMICA,** The Pearl. One of the best white, hardy perennials, bearing profusely and continuously from June until frost, beautiful small, white, double flowers; useful for cutting. Easily grown from seed, desirable and often used in cemeteries. 2 feet. Pkt. 5 cts.

## ACROCLINIUM

### EVERLASTING FLOWER

A half-hardy annual, bearing attractive white and rose-colored single and double flowers chiefly used when dried for winter bouquets and wreaths; for this purpose, flowers should be cut before fully expanded.  $1\frac{1}{4}$  feet.

139 Light Rose and Pure White, Mixed. Pkt. 5 cts.

## ADLUMIA

140 **CIRRHOSA.** (Mountain Fringe; Allegheny Vine.) A beautiful hardy, climbing biennial, which usually self-sows. The feathery foliage resembles that of the maiden-hair fern. Of rapid growth and produces, in great profusion, small, tube-shaped pink blossoms. Of the easiest culture. Desirable for covering trellises, stumps, etc. 10 to 15 feet. Pkt. 5 cts.

## ADONIS

Hardy, free-flowering plants, bearing showy, attractive flowers, and requiring little care. Seed should be sown in the open ground in the Autumn, or started early in March.

144 **AESTIVALIS.** (Flos Adonis; Pheasant's Eye.) Hardy annual, bearing intense, blood-red flowers, which, in contrast with the finely cut, dark, green foliage, give the plant a very striking appearance. 1 foot. July and August. Pkt. 5 cts.

145 **VERNALIS.** (Ox-Eye.) Hardy perennial, blooming early in spring; when once established, may be easily increased by division. Flowers large, yellow. 18 inches. May and June. Pkt. 5 cts.

## AGERATUM

One of the best hardy annuals for summer bedding flowers. Easily grown from seed, which should be sown in the house, as it lengthens the time of blooming which continues until frost. Its season, however, compares favorably in length with other annuals when seed is sown in the open ground. Set the dwarf kind 10 inches apart, and they soon make a mass of color.

148 **MEXICANUM.** Blue,  $1\frac{1}{2}$  feet. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.

149 **MEXICAN ALBUM.** White.  $1\frac{1}{2}$  feet. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.

150 **IMPERIAL DWARF WHITE.** 8 inches. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.

151 **LITTLE DORRIT.** Azure-blue. 8 inches. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.

152 **IMPERIAL DWARF BLUE.** 8 inches. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.

153 **LITTLE BLUE STAR.** A miniature variety with beautiful mauve flowers. 5 inches. Pkt. 15 cts.

154 **BLUE PERFECTION.** Large heads of Amethyst-blue flowers;

plant of very even growth, about 8 inches high. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

158 **MIXED COLORS.** All varieties mixed. Pkt. 5 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 45 cts.

## AGROSTEMMA

Pretty, free-blooming plants of easy culture, especially desirable for dry situations. Excellent for cutting.

160 **COELI-ROSA.** (Rose of Heaven.) Rose, white center. Hardy annual.  $1\frac{1}{2}$  feet. Pkt. 5 cts.

161 **CORONARIA.** (Rose Champion.) One of the earliest hardy perennials.  $1\frac{1}{2}$  feet. Mixed colors. Pkt. 5 cts.

## ALYSSUM

A well-known favorite, hardy annual, blooming profusely the entire season. Excellent for edgings. No other white flower is so well adapted for a dense, low carpet, or as borders and ribbons in garden work. Extremely fragrant and frequently used for bouquets. Of easy culture. Sure to make a good display. Sow seed early in April.

166 **SWEET ALYSSUM.** Fragrant, white, 1 foot. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 60 cts.

167 **LITTLE GEM.** Of spreading habit, forming compact masses of bloom often a foot or more in diameter. White, fragrant, 6 inches. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.

168 **CARPET OF SNOW.** Of very dwarf habit; white, fragrant. 4 inches. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 30 cts.,  $\frac{1}{2}$  oz. 50 cts.

170 **SAXATILE COMPACTUM.** Hardy perennial, bearing in great profusion in early spring golden yellow flowers. Desirable for rock work or for massing. 1 foot. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.

171 **LITTLE DORRIT.** Little bushes fairly smothered with miniature white flowers. A gem for edging and beds. 4 inches high. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 35 cts., oz. \$1.25.

## AMARANTHUS

Brilliantly colored foliage, and bearing peculiarly formed flowers. While in rich soil the plants and leaves are much larger, the colors are seldom as brilliant as when grown on rather poor soil. Of easiest culture. Give plenty of room to develop.

175 **CAUDATUS.** (Love-Lies-Bleeding.) Long, drooping flower, blood red. Half-hardy annual. 2 feet. Pkt. 5 cts.

176 **CRUENTUS.** (Prince's Feather.) Spikes of dark red flowers, half-hardy annual. 3 feet. Pkt. 5 cts.

177 **SALICIFOLIUS.** (Fountain Plant.) Long, gracefully undulated foliage, beautifully variegated, varying from green to bronze, banded and tipped with carmine. Tender annual. 3 feet. Pkt. 5 cts.

178 **TRICOLOR SPLENDENS.** (Joseph's Coat.) Red, yellow and green foliage. One of the most beautiful of ornamental-leaved plants. Hardy annual. 2 ft. Pkt. 5 cts.

## AMPELOPSIS

182 **VEITCHII.** (Boston Ivy; Japan Ivy.) The well-known popular climbing vine, so often seen on walls of churches, school-houses, etc. Grows rapidly and clings to the smoothest surface. Ornamental the entire season, the dark green glossy leaves changing in the autumn to beautiful shades of scarlet, crimson and orange. Easily grown from seed. Entirely hardy except in the far North. Stands the dust and smoke of cities exceedingly well. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.

## ANCHUSA

H. P. Flowers borne on spikes of a variety of blue shades. Useful in shrubbery and perennial gardens.

185 **CAPENSIS.** Cape Forget-me-not.) Attractive annual with azure blue flowers.  $1\frac{1}{2}$  feet. Pkt. 10 cts.

186 **DROPMORE VARIETY.** The bright blue Forget-Me-Not-like flowers are borne on graceful stems during the entire season and way late into the Fall. It is a great improvement over the existing varieties. Hardy perennial. 4 to 5 feet. Pkt. 15 cts.,  $\frac{1}{2}$  oz. 50 cts.

## ANEMONE

A very popular hardy garden perennial.

188 **CORONARIA.** Single, mixed colors. The well-known Poppy-flowered Anemone. 1 foot. Pkt. 5 cts.

189 **CORONARIA, ST. BRIGID.** An improved strain, bearing larger and more brilliant flowers, and remaining in bloom longer. 1 foot. Pkt. 10 cts.

## ANTHEMIS TINCTORA

(Hardy Golden Marguerite)

A beautiful, hardy perennial of easy culture, bearing all summer, golden yellow, daisy-like flowers, excellent for cutting. Plants bushy and should stand at least 2 feet apart. Height 2 feet.

190 **KELWAYI.** Pkt. 5 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.

## ANTIRRHINUM

(Snapdragon)

One of the most beautiful and useful bedding plants, blooming profusely throughout the summer. Fine for cutting.

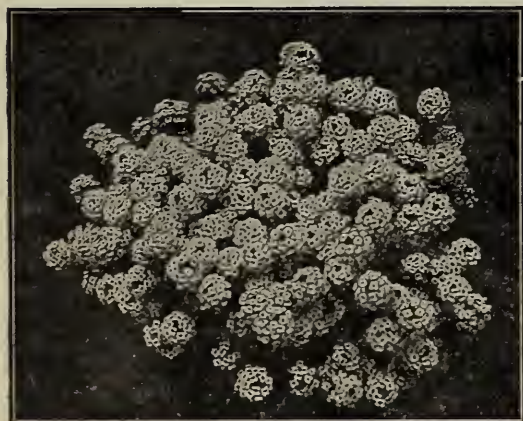
191 **SILVER PINK.** A splendid commercial variety, long-stemmed, large flowered, delicate rosy pink, seemingly covered with a silver sheen. Pkt. 25 cts.

192 **VENUS.** A bright pink on white ground, set off by pure white throat. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts.

Tall Varieties. 193 Rose. 194 Crimson. 195 White. 196 Yellow. 197 Mixed. Pkt. 5 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. \$1.00..

198 **Grandiflora.** Giant varieties. Mixed, pkt. 10 cts.,  $\frac{1}{4}$  oz. 35 cts.

199 **Dwarf Varieties.** Mixed colors. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 35 cts.



Sweet Alyssum, Fine for Edging





# EVERYBODY KNOWS ROSS' SEED GROWS



## AQUILEGIA

(Columbine)

Beautiful free flowering, hardy perennials, blooming throughout the spring and early summer. Of easy cultivation and will thrive in partial shade. 1 to 3 feet.

200 Single Mixed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 40 cts.

202 Double Mixed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 40 cts.

203 COERULEA. (Rocky Mountain Columbine.) Splendid large, light blue. Pkt. 15 cts.,  $\frac{1}{4}$  oz. 75 cts.

204 COERULEA HYBRIDA pl. fl. Long spurred, flowering hybrids in fine colors. Pkt. 25 cts.

## ARABIS

209 ALPINA. (Rock Cross.) A pretty, little hardy perennial, thriving in dry soil, and one of the earliest to bloom. Flowers white and deliciously fragrant; resembles Sweet Alyssum. The plant is covered with bloom and is excellent for rockwork and edgings. 6 inches. Pkt. 10 cts.

## ARCTOTIS

210 GRANDIS. (African Lilac Daisy.) A beautiful annual from Africa, of luxuriant branching growth, bearing freely from July until frost, large, long-stemmed, daisy-like flowers, about 3 inches across; pure white on upper surface, reverse side of pale lilac. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.,  $\frac{1}{4}$  oz. 50 cts.

## ARISTOLOCHIA

215 SIPHO. (Dutchman's Pipe.) A hardy perennial vine of rapid growth, with large glossy heart-shaped leaves, bearing curious yellowish-brown blossoms, somewhat resembling a pipe. 15 to 20 feet. Pkt. 15 cts.

## ASPARAGUS

216 PLUMOSUS NANUS. Beautiful house plants; the feathery foliage is unrivaled for cutting. Pkt. 25 cts., 100 seeds, \$1.00.

217 SPRENGERI. Excellent plants for table decorations. Pkt. 15 cts

## ASPERULA

220 ODORATA. (Sweet Woodruff.) A hardy perennial, blooming freely and continuously in rather moist soil and a partially shaded location. The flowers are white, but the plant is largely grown for its fragrant leaves and stems, which are used when dried for the same purposes as those of lavender. 1 foot. Pkt. 5 cts.

## BALSAM

This old favorite annual, sometimes known as Lady's Slipper, has been continually improved for several years, the flowers of some strains now closely rivalling in size and beauty those of the Camellia. Requires rich soil, full exposure to the sun and plenty of water, to be grown to perfection, but is otherwise of easy culture. We offer seed of the most improved types, which will, with favorable conditions, produce a large proportion of double flowers. 2 feet.

225 IMPROVED CAMELLIA-FLOWERED, MIXED COLORS. Double flowers of the finest type and a wide range of beautiful colors. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 40 cts.

226 NEW DOUBLE WHITE. (Alba perfecta.) Extra fine. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 40 cts.



Balsam

227 DOUBLE DARK RED. Beautiful rich color. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 40 cts.

228 DOUBLE PINK (PRINCE BISMARCK). Pkt. 10 cts.,  $\frac{1}{4}$  oz. 40 cts.

230 CHOICE MIXED. Double flowers of many colors. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 75 cts.

## BALLOON VINE

235. A tender annual climber of rapid growth, bearing small, white flowers, followed by curious inflated seed-vessels, somewhat resembling a balloon. 10 to 15 feet. Pkt. 5 cts.

## BARTONIA AUREA

236 Showy hardy annual of distinct character, its golden yellow flowers being freely produced; it grows well in partial shade but should not be crowded. Pkt. 10 cts.

## BEANS, ORNAMENTAL VARIETIES

The Scarlet and White Runner Beans are deservedly popular as ornamental climbers, as but few plants grow so rapidly, and none is more easily grown. The former is largely grown alone for ornament, but all are very attractive. The beans of the White Runner are used in some localities as green shell beans; Scarlet are also edible, but seldom used. All should be treated as directed for Pole Beans.

240 SCARLET RUNNER. Pkt. 5 cts.

241 WHITE RUNNER. Pkt. 5 cts.

## BELLIS PERENNIS (Double Daisy)

A perennial plant, bearing in early spring small, double white or rose-colored flowers. It succeeds best here in a rich, loamy soil, partially shaded. It is generally classed as hardy, but really needs a slight protection through the winter. 4 inches.

245 Mixed Colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

246 LONGFELLOW. Dark Rose. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

247 SNOWBALL. Pure white. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

## BRACHYCOME (Swan River Daisy)

A free-flowering plant of dwarf, compact growth, bearing in great profusion beautiful single blue or white flowers. Effective as edgings or in beds, and suitable for rustic baskets or pot culture. Half-hardy annual. 1 foot.

250 Mixed Colors. Pkt. 5 cts.

## BROWALLIA

A beautiful, free-blooming half-hardy annual. Seed may be sown in the open ground when warm, but preferably should be sown in the house or hotbed, and, if possible, repotted once or twice. The plants will then bloom early and be covered throughout the summer with their beautiful blue and white flowers. For beds, borders or pots, few equal it. 1  $\frac{1}{2}$  feet.

251 Blue and White. Mixed. Pkt. 5 cts.

## CALCEOLARIA

Gorgeous plants for greenhouse and window decoration. The flowers are borne in the greatest profusion through spring and summer; colors, yellow, maroon, white, etc., spotted and blotched in the most unique fashion. 1  $\frac{1}{2}$  feet.

253 Superb English Mixture. Pkt. 50 cts.



Antirrhinum





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## CALENDULA (Pot Marigold)

A very free-blooming hardy annual of easy culture. Grows well in nearly all soils. Flowers double, borne on stiff stems, and are cut to some extent, but the plant is more desirable for bedding. 1 to 1½ feet.

- 254 **NANKEEN.** A very distinct variety, the double flowers of a creamy-yellow, slightly flushed apricot, dark brown eye. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.  
 255 **METEOR.** Yellow, striped orange. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.  
 256 **ORANGE GIANT.** Extra large, orange. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.  
 257 **PRINCE OF ORANGE.** Orange, striped yellow. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.  
 258 **SULPHUR CROWN.** Sulphur-yellow. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.  
 259 **Mixed Varieties.** Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

## CALLIOPSIS

Well-known, profuse-flowering hardy annuals of the earliest culture. Numbers 260 and 263 represent the type more commonly known. Numbers 261 and 262 resemble in habit, foliage and flower the perennial type, generally known as Coreopsis.

- 260 **Mixed Colors.** 1½ to 2 feet. Pkt. 5 cts., ½ oz. 20 cts., oz. 35 cts.  
 261 **CORONATA MAXIMA.** Yellow; extra large. 1½ feet. Pkt. 5 cts., ¼ oz. 15 cts.  
 262 **GOLDEN WAVE.** Drummondii.) Golden yellow with small dark center. 1½ feet. Pkt. 5 cts., ¼ oz. 20 cts.  
 263 **RAY OF GOLD.** Yellow, with purplish brown center. 6 to 8 inches. Pkt. 5 cts., ¼ oz. 15 cts.

## CANTERBURY BELLS

(Campanula Medium)

Well-known, beautiful, hardy biennials. Like all of this class, may be sown where they are to remain any time after midsummer, or in beds in the spring for transplanting. The Calycanthema (Cup-and-Saucer) class is so named because of the broadening of the calyx into a saucer-shaped secondary flower. In permanent situations, plants should stand 18 to 20 inches apart. All varieties succeed best in a rich, rather sandy, well drained soil.

- 267 **PRIZE MIXTURE.** A superb mixture of all classes, single, double, and cup and saucer. Pkt. 10 cts., ½ oz. 20 cts.  
 268 **SINGLE, MIXED COLORS.** Pkt. 5 cts., ½ oz. 15 cts. 272 **CALYCANTHEMA.** (Cup-and-Saucer). Mixed Colors. Pkt. 10 cts., ½ oz. 20 cts.  
 269 **DOUBLE MIXED COLORS.** Pkt. 5 cts., ½ oz. 15 cts. 273 **CALYCANTHEMA.** Blue. Pkt. 10 cts., ½ oz. 20 cts.  
 270 **CALYCANTHEMA.** Rose pink. Pkt. 10 cts., ½ oz. 20 cts. 274 **CALYCANTHEMA.** White. Pkt. 10 cts., ½ oz. 20 cts.

## CANARY CREEPER

(Tropaeolum Canariensis)

- 275 A rapid-growing, half hardy annual climber, bearing curiously formed yellow flowers. Blooms until frost. Fine for shady places. 10 to 15 feet. Pkt. 10 cts., ¼ oz. 15 cts.

## CANDYTUFT

Popular hardy annual, growing in any soil, requiring but little care, and by repeated sowings may be had in bloom all summer. 6 inches to 1 foot.

- 276 **CARMINE.** Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.  
 277 **DARK CRIMSON.** (Dunnett's.) Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.  
 278 **EMPRESS.** Large trusses; pure white. Pkt. 10 cts., ½ oz. 20 cts., ¼ oz. 35 cts.  
 279 **GIANT HYACINTH-FLOWERED.** Heads of immense size, resembling the hyacinth. White. Generally considered superior to Empress. Pkt. 10 cts., ½ oz. 20 cts., ¼ oz. 35 cts.

- 280 **MIXED COLORS.** Pkt. 5 cts., ¼ oz. 10 cts., oz. 35 cts.  
 281 **QUEEN OF ITALY.** Of dwarf, bushy habit. Large pink flowers; fine. 6 inches. Pkt. 5 cts., ½ oz. 25 cts., oz. 40 cts.  
 282 **DWARF HYBRIDS.** Mixed colors. Of dwarf habit, but flowers are large. Pkt. 5 cts., ½ oz. 20 cts., oz. 35 cts.  
 283 **WHITE FRAGRANT.** Pkt. 5 cts., ¼ oz. 20 cts., oz. 60 cts.

## CANNA

The Crozy Cannas are well known for their dwarf growth and luxuriant foliage. The flowers are large and of most brilliant colors. Soak the seeds in warm water until they show signs of swelling, then sow in sandy loam and place in a hotbed.

- 284 **CROZY'S DWARF.** Large flowering varieties. Mixed. 3 to 4 feet. Pkt. 10 cts., ¼ oz. 20 cts.  
 285 **TALL, DARK-LEAVED VARIETIES.** Mixed. Pkt. 10 cts., ¼ oz. 20 cts.

## CARNATION

Well-known and very popular half-hardy perennial, which until the introduction of the Marguerite class, was mainly grown by the florist in the green house and occasionally by the amateur in pots in the house. The Marguerite class, including the original and later introductions of similar type, are treated as annuals, blooming in about four months from seed, which may be sown in the open ground early in the spring, usually by May 1, but preferably earlier in the house, and plants set in the open about the middle of May, as this greatly lengthens the period of blooming. By cutting off the flower-stems early in the fall and potting the plants, they will bloom freely through the winter if kept in a cool room. The Carnation requires a rich soil, and, in such, the plants should stand about 12 inches apart.

- 286 **MARGUERITE IMPROVED SEMI-DWARF.** An improved strain, blooming four months after sowing. Flowers are larger, a greater proportion double and the variety of colors much greater than those of the original. Pkt. 10 cts., ½ oz. 30 cts.  
 287 **MARGUERITE GIANTS.** Flower approaches in form, size, fragrance and beauty those grown by the florist. Great variety of color. Blooms four months after sowing. Pkt. 10 cts., ½ oz. 40 cts.  
 288 **CHAUBAUD'S GIANT PERPETUAL.** A new strain, remarkable for its combination of earliness with the continuity of bloom and perfection of flowers of the perpetual type. Blooms in four or five months after sowing. Flowers large, a high percentage double. Deliciously fragrant and greatly varied in coloring. Pkt. 15 cts.  
 290 **DWARF VIENNA.** Blooms early the second summer from seed. The hardiest sort, said to stand the winter with slight protection. Flowers large, double fragrant and of varied colors. Pkt. 10 cts., ½ oz. 25 cts.  
 292 **DOUBLE FINE MIXED.** A choice strain of the regular type, blooming the second year from sowing. Most desirable for house culture. Pkt. 10 cts.

## CINERERIA (Hybrida Grandiflora)

- 294 **ROSS' PRIZE MIXTURE.** The plants are of compact growth, carrying extra large flower heads with flowerets of unusual size and substance. This strain includes the brightest and richest self colors as well as a good mixture of all colors. Pkt. 25 cts.



Calendula



Carnation





# EVERYBODY KNOWS ROSS' SEED GROWS



## CASTOR BEAN

(Ricinus)

Well-known tender annual; tall, stately, majestic plants of very rapid growth, with palm-like leaves of glossy green, brown or bronze hue; very effective for lawns, planted singly or in groups. 6 to 15 feet.

295 **BORBONIENSIS**. Large, showy foliage of purplish hue. 15 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

296 **CAMBODGENSIS**. Stalks and stems nearly black; leaves large, of a deep bronze maroon. 6 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

297 **SANGUINEUS**. (Tricolor.) Stalks blood-red, foliage, reddish bronze, with scarlet seed-pods. 6 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

298 **ZANZIBARENSIS**. A comparatively new class, with gigantic leaves, ranging in color from light green to deep bronze. 10 to 15 feet. Mixed varieties. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

299 **GIBSONI**. Large, dark-red leaves. 5 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

300 All Varieties Mixed. Pkt. 5 cts., ½ oz. 10 cts., oz. 15 cts.

## COCKSCOMB

(Celosia cristata)

Popular free-blooming, half-hardy annual bearing flowers of comb-like form, the recently improved strains producing under best cultivation heads of enormous size. Grown either by itself or combined with other plants, the Cockscomb makes a striking and effective display. While seed may be, and more generally is, sown in the open ground, for best results it should be sown early in the house, and the young plants transplanted into small pots in which they should remain until they show signs of blooming, when they should be shifted to a permanent location. The Cockscomb requires good, rich soil, ample room and plenty of moisture to fully develop its flowers.

305 **GLASGOW PRIZE**. Crimson; dark foliage. 9 inches. Pkt. 10 cts., ⅓ oz. 30 cts.

306 **GOLDEN YELLOW**. 9 inches. Pkt. 10 cts., ⅓ oz. 30 cts.

307 **MIXED**. Pkt. 10 cts., ⅓ oz. 20 cts.

310 **DWARF, EXTRA-CHOICE MIXED**. Includes all the latest introductions and colors of the Cockscomb. Pkt. 10 cts., ⅓ oz. 50 cts.

## FEATHERED CELOSIA

(Celosia plumosa)

Often used for winter bouquets, and for this purpose should be cut before fully ripe and dried in the house. The class requires the same treatment as the preceding. Half-hardy annual. 1 to 1½ feet.

311 **THOMPSON'S SUPERB**. Graceful, feathery plumes of rich crimson, which contrast beautifully with the purplish bronze foliage. Pkt. 5 cts., ⅓ oz. 15 cts., ¼ oz. 25 cts.

312 **GOLDEN PLUME**. Golden Yellow. Pkt. 5 cts., ⅓ oz. 15 cts., ¼ oz. 25 cts.

313 **THOMPSONIA MAGNIFICA**. A splendid strain, large plumes, ranging from clear yellow to darkest red. Pkt. 10 cts., ⅓ oz. 20 cts.

316 **CHOICE MIXED**. Pkt. 5 cts., ¼ oz. 15 cts., oz. 40 cts.

## CENTAUREA

To this family belongs the well-known annuals, Bachelor's Button and Sweet Sultan, and also the plants known as Dusty Millers.

**CYANUS**. (Bachelor's Button, or Cornflower.) Popular hardy annual of the easiest culture, blooming quickly after seed is sown and for a considerable time if flowers are kept well cut. 2 feet.

317 **DOUBLE BLUE**. A selection of the old-fashioned Bachelor's Button, producing a large percentage of beautiful double blue flowers. Pkt. 10 cts., ⅓ oz. 25 cts.

318 **SINGLE and DOUBLE MIXED**. Pkt. 5 cts., ¼ oz. 15 cts., oz. 50 cts.

319 Single White. 320 Single Lilac. Each, pkt. 5 cts., ⅓ oz. 15 cts.

321 **MOSCHATA**. (Common Sweet Sultan.) Mixed colors. Pkt. 5 cts.

322 **SUAVEOLENS**. (Yellow Sweet Sultan.) Pkt. 5 cts.

**IMPERIALIS**. (Royal Sweet Sultan.) A new and greatly improved type of Sweet Sultan. Both the plants and flowers are much larger than the common. The flowers are borne on long, stiff stems, and will last for several days after cutting. They are very fragrant and colors delicate and beautiful.

323 Blue. 324 White. Each, pkt. 10 cts.

325 **Mixed Colors**. Pkt. 10 cts., ⅓ oz. 25 cts.

**WHITE-LEAVED CENTAUERAS**. (Dusty Miller.) Half-hardy perennials, which are grown annually from their seed for their foliage only. Used with other foliage and flowering bedding plants.

326 **CANDIDISSIMA**. Deeply cut, silvery white foliage, densely covered with white hairs. 1 foot. Pkt. 10 cts.

327 **GYMNOCARPA**. Silvery-white foliage; of graceful drooping habit. 1½ feet. Pkt. 10 cts.

328 **MONTANA BLUE**. (Perennial Corn Flower.) Large violet-blue flowers. 2 feet. Pkt. 10 cts., ⅓ oz. 30 cts.

## CHINESE WOOLFLOWER

329 **CELOSIA CHILDSII**. Without doubt this new Celosia is the most magnificent garden annual yet introduced. Its ease of culture and long continued blooming season (July until frost), together with its massive bunches of wool-like flowers and glowing color, combine to make it the most odd as well as the showiest novelty for the general flower garden. Plants grow about three feet high, the bloom starting early with a globular central head of immense size, while numerous branches are sent out, each bearing a ball of scarlet wool, while each branch produces many laterals which also develop excellent heads of bloom that last until killed by frost and expand with a deepening richness of color to a deep crimson scarlet. Seed may be sown in open, after danger from frost, or sown in pots; may be transplanted when ground is ready. Pkt. 20 cts., three pkts. 50 cts.

## CHRYSANTHEMUM (Annual Varieties)

Free-flowering plants of branching habit, with rich, finely cut and very ornamental dark green foliage, bearing on long stems daisy-like flowers of bright and varied colorings. These colorings on the single varieties are usually in distinct rings and look, on the flat petals, as though they were painted on. Both grow freely from seed, are of easy culture, very desirable for cutting, and are effective bedding plants. They should be given plenty of room, from 2 to 2½ feet, and will bloom more freely on soil of medium fertility. Hardy annual. 1 to 1½ feet.

330 **SINGLE**. (Painted Daisies.) Mixed colors. Pkt. 5 cts., ¼ oz. 15 cts., oz. 50 cts.

331 **EVENING STAR**. Covered with bright golden yellow single flowers. Pkt. 5 cts., ⅓ oz. 15 cts.

333 **DOUBLE**. (Marguerites.) Mixed colors. Pkt. 5 cts., ⅓ oz. 15 cts.



Cockscomb



Chinese Woolflower





## CLARKIA

A pretty, hardy annual from California, much improved in recent years. Blooms profusely in either sun or partial shade. Colors: Rose, salmon-pink, purple and white, in mixture. 1 foot.

338 Single and Double Mixed. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts.

## CLEMATIS

340 *Paniculata*. One of the finest hardy perennial climbers. Of robust habit, and covered from the ground to the summit with pure white fragrant flowers. The flowers are followed by pretty seed pods of bronzy-red; 12 feet. Pkt. 10 cts.

341 *Large-Flowering, Mixed*. (Jackman's.) Flowers 3 to 4 inches across, of charming shadows of blue, white, purple, lavender, etc.; 10 to 12 ft. Pkt. 10 cts.

## CLEOME "Giant Spider Plant"

343 *Gigantea Rosea*. A showy garden annual producing curious heads of flowers of bright rose color with long antennae-like stamens; of easy cultivation, blooming early until late; 4 to 5 ft. Pkt. 10 cts.

## COBAEA

345 *SCANDENS*. (Climbing Cobaea.) A beautiful, rapid-growing, half-hardy perennial climber, blooming the first year from seed, bearing large bell-shaped flowers; at first green, but changing to a beautiful deep violet-blue. A clean porch climber, free from insects. Sow early in the house and pot the plants, as this greatly lengthens the period of bloom, and the plants will make a much greater growth. Seed germinates more readily if pushed into the ground edgewise and barely covered. 20 to 30 feet. Pkt. 10 cts.

## COIX LACHRYMA

(Job's Tears)

347 An ornamental grass growing from 7 to 9 feet high. Large broad leaves bearing large, shiny seed. Pkt. 5 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.

## COLEUS

Popular ornamental foliage plants, usually propagated by cuttings, but easily grown from seed, from which many new varieties may be expected, affording an interesting experiment to the amateur. Sow in heat in March or April and transplant to open ground about the first of June. For borders of geranium or canna beds and in carpet-bedding, very useful. Grows rapidly.

350 *Choice Hybrids, Mixed*. From a large collection; of greatly diverse shades and markings. Pkt. 10 cts.

351 *New Large-Leaved Varieties, Mixed*. Saved from new varieties with very large and richly variegated foliage. Pkt. 25 cts.

## COLLINSIA

A free-flowering hardy annual from California, of easiest culture and great beauty. Seed preferably should be sown in the fall, as the plants will bloom much earlier than from seed sown in the spring. It may, however, be sown in the spring, if desired. 1 foot.

353 *Mixed Colors*. Pkt. 5 cts.

*COLUMBINE*. See *Aquilegia*.

## CONVOLVULUS MINOR

(Dwarf Morning-Glory)

Half-hardy annual of trailing habit, growing about 1 foot high and covering a space of 2 feet, and bearing abundantly bell-shaped flowers similar to those of the tall sort. Flowers open on clear days about noon and remain open until evening, are pure white and of many shades of blue and red.

356 *Mixed Colors*. Pkt. 5 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.

## BURBANK'S RAINBOW CORN

357 The stalks, including tassel, grow five and a half feet tall, and are clothed with many variously variegated leaves three inches wide and two feet long. The leaves (both on main stalks and suckers) are all superbly striped with broad bands of crimson, yellow, rose, white, and bronze. The small hardy seed can be planted early, and as it does not ripen until very late the plants present their rich tropical beauty for a long season. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts.

## COREOPSIS

For Annual Varieties, see *Calliopsis*

358 *LANCEOLATA GRANDIFLORA*. A beautiful, hardy perennial, blooming profusely the first season until frost from seed sown early. The flowers are a rich, golden yellow, often 3 inches in diameter, borne on fine long stems and are very desirable for cutting. Of easiest culture, growing anywhere. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 40 cts., oz. \$1.40.

## COSMOS

Beautiful autumn-blooming plants. They produce thousands of artistic flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decorations when other flowers are scarce. Should be sown in spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. Plant not less than 18 inches apart in rows or in masses in beds. When the plants are about a foot high the tops should be pinched out to induce a bushy growth. They prefer a rather light, not too rich soil, but do well almost anywhere.

359 *KLONDIKE*. Large, orange colored flowers. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.

360 *MAMMOTH PERFECTION*. Mixed colors. Flowers of mammoth size, rather late in flowering; seed should therefore be sown as early as possible in the house in March, or as the plant is especially hardy, in the open ground in a sheltered spot in April. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts.

362 *LARGE EARLY FLOWERING*. In the New Large Early-Flowering we have a strain which combines the desired features of good size and early production. The flowers are fully twice as large as the Early-Flowering, while the plant blooms as early. Crimson, Rose, and White Mixed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts.

362A *Crimson*. 362B *Pink*. 362C *White*. Each, pkt. 10 cts.

363 *CRIMSON RAY*. This distinct novelty originated from one plant which attracted marked attention from the fact that the flowers, while equally as large in diameter, showed a new departure in form, number and shape of the petals. The petals were narrow and fluted, separated in star-like form and of the most brilliant crimson color overlaid with velvet sheen. Pkt. 10 cts.

*LADY LENOX*. Long stemmed flowers, often measuring 5 inches across. Unsurpassed for garden decoration and cut flowers. 6 to 7 feet.

364 *Pink*. Pkt. 15 cts. 364A *White*. Pkt. 15 cts.



Cosmos



Double Cosmos





# EVERYBODY KNOWS ROSS' SEED GROWS



## DOUBLE COSMOS

These new hybrids form bushy plants 5 to 6 feet high and flower profusely during the autumn months. Only 40 to 50 per cent. of the plants will bear double flowers, the balance producing large single blossoms, the reason being that the double flowers are pistillate—having no stamens and consequently bear no pollen—so to produce seed must depend upon staminate singles for pollination. The progeny therefore comes about half doubles and half singles. Double Cosmos flowers aside from their novelty and beauty are of lasting substance, both on the plants and as cut flowers.

365 CRIMSON KING. Dark crimson.

365A PINK BEAUTY. Soft pink.

365B WHITE QUEEN. Pure white.

365C WHITE, PINK AND CRIMSON MIXED. Each 20 cts. per pkt., 3 for 50 cts.

## ROSS' GIANT CYCLAMEN

Charming house plants, with beautiful foliage and rich colored, fragrant flowers. Universal favorites for winter and spring blooming. May be successfully raised from seed with a little care and patience.

366 Giant White. 367 Giant Red. 368 Giant White with Red Eye. 369 Giant Mixed. Pkt. 50 cts.

## CYPRESS VINE

A popular climbing vine, with delicate fern-like foliage, bearing in abundance small, star-shaped, rose, scarlet or white flowers. Of easy culture. Half-hardy annual. 10 to 12 feet.

370 Mixed Colors. Pkt. 5 cts., 1/4 oz. 15 cts., oz. 50 cts.

## DAHLIA

The growing of the double varieties from seed is always more or less of an experiment, but fine flowers of the single type can be easily secured from seed the first season. If seed of the double sorts is sown in March and the young plants set in the open ground as soon as danger of frost is past, some of the plants, perhaps half, will bloom the first season. The single varieties, however, will all bloom the first season from seed sown in the open ground as late as the first week in June. An earlier planting is, however, preferable. Tender perennial. The tubers formed each season should be stored in a frost-proof cellar.

371 SINGLE, MIXED COLORS. Pkt. 5 cts., 1/4 oz. 20 cts., oz. 75 cts.

372 SPECIAL MIXTURE of Giant-Flowered Single Varieties. Comprises seed from noted English and Holland growers, and includes the Giant Perfection, and Colossal strains, and Hornsved's Giant Hybrids. An unsurpassed mixture of the greatest possible diversity of colors. Pkt. 15 cts., 1/8 oz. 30 cts., 1/4 oz. 50 cts.

373 DOUBLE LARGE-FLOWERED. Mixed colors. Saved from the finest show varieties. Pkt. 10 cts., 1/8 oz. 25 cts., 1/4 oz. 40 cts.

DAHLIA BULBS. See pages 72 and 73.



Double Dahlia

## DAISY

It has always seemed to us unfortunate that the English Daisy (*Bellis perennis*) should have been given its common name, as we are quite sure that nearly every one instinctively associates with the terms "daisy" or "daisy-like," flowers which resemble in form and habit our common field daisy. We therefore list under this head the famous Shasta Daisy and Michaelmas Daisies and call attention to other flowers often known as Daisies, but listed elsewhere under different names.

376 AFRICAN GOLDEN. (*Dimorphoteca Aurantiaca*). This very showy, annual plant is a valuable addition to the list of hardy annuals. When first exhibited it gained an Award of Merit at the great Temple Show, London, has been very favorably mentioned in the leading horticultural papers of this country and Europe, and all who have seen the plant in bloom praise it. A bed of these plants is remarkably effective and the flowers are excellent for cutting, while the plant is easily grown from seed sown in the open ground. The combination of beauty of flower, profusion and length of bloom and ease of culture should commend this plant to all who cultivate flowers and will, we are sure, make it a general favorite when once its merit is known. Pkt. 10 cts., 3 pkts. 25 cts.

BURBANK'S SHASTA DAISY. An extremely hardy perennial, thriving in all soils, blooming more freely each season, and, when once established, for several months. Easily grown from seed and can be also increased by division of the root. The flowers are from 3 to 4 inches across, borne on very long, stiff, wiry stems, and remain in good condition for many days after being cut.

378 ALASKA. Pure glistening white. Pkt. 15 cts.

379 BURBANK'S SELECTED HYBRIDS. A mixture of seeds saved from the best seedlings, including some with double rows of petals. Pkt. 15 cts.

MICHAELMAS DAISIES. (Perennial Single Asters.) Beautiful and showy hardy perennials, easily grown from seed, blooming profusely in the autumn months, and the first season if seed is sown early.

381 MIXED COLORS.—Pkt. 10 cts.

for other flowers known as Daisies, see Anthemis, Brachycome and Chrysanthemums.

## DATURA

DATURA. (Trumpet Flower.) Strong growing ornamental annual shrubs. Flowers trumpet shape, large and fragrant.

383 FINEST MIXED. Pkt. 5 cts., 1/4 oz. 15 cts.

## DELPHINIUM

(Larkspur)

Showy, hardy annuals and perennials, thriving in nearly all soils if well enriched and open to the sun. Seed of the annual sorts, though more generally sown in the spring, should preferably be sown in autumn, as plants commence blooming much earlier. Seed of the perennial kinds may be sown in the open ground from April to October, or inside in March, and if plants are kept growing well until June, and then set in the open border some will bloom well in the autumn months.

(See Next Page)



Delphinium





## ANNUAL DELPHINIUMS

- 385 **DOUBLE DWARF ROCKET.** 1 foot. Mixed colors. Pkt. 5 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.  
**DOUBLE BRANCHING.** 387 Carmine. 388 Dark Blue. 389 Light Blue. 390 White. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 20 cts.  
 391 **DOUBLE IMPERIAL BRANCHING.** Mixed colors. A superior strain. 2 feet. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 20 cts.

## PERENNIAL DELPHINIUMS

- 393 **ELATUM.** (Bee Larkspur.) Flowers have curiously folded, hairy petals in the center, which give them a fancied resemblance to a bee. Rich shades of blue, with black center.  $2\frac{1}{2}$  feet. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 30 cts.  
 394 **FORMOSUM.** The large flowers are deep, rich blue, with white centers.  $2\frac{1}{2}$  feet. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 30 cts.  
 395 **SIBIRICUM HYBRIDUM.** Shades of blue. If sown early, will bloom in August. 2 feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

## DIANTHUS, PINKS

The following varieties of Dianthus, commonly known as Chinese and Japanese Pinks, have been, for a long time, very popular, and deservedly so. In diversity of rich and beautiful markings they have but few rivals and in ease of culture, freedom of bloom, and almost certain satisfactory results, they stand close to the Nasturtium. Hardy biennials, blooming the first year from seed. So easily grown from seed as to be rarely treated as biennials. Seed may be sown in the open ground any time in May. Plant 6 inches apart. Height 1 foot.

- 398 **DOUBLE CHINA.** (D. Chinensis fl. pl.) Small, double flowers, borne in large clusters, of many colors, mostly with white edge. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.  
 399 **HEDDEWIG'S DOUBLE.** (D. Heddwigi fl. pl.) Japan Pinks. Very large, double flowers of a wide range of color, running from white and light pink through shades of red to rich, velvety crimson and deep maroon almost black. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts.  
 400 **SINGLE MIXED.** Large single flowers, of rich and varied colorings. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 20 cts.  
 404 **DOUBLE IMPERIAL.** (D. imperialis fl. pl.) A popular strain; fine, large, double flowers of many colors. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.  
 405 **ROYAL, or KING'S PINKS.** (D. nobilis fl. pl.) An ideal strain, the earliest to bloom, flowers of the largest size and of remarkably bright solid or self colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
 406 **DOUBLE FRINGED JAPAN.** (D. laciniatus fl. pl.) Large, double fringed flowers of rich and varied coloring. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts.  
 407 **FIREBALL.** Of dwarf habit. Flowers globular, double, dark, blood red. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
 408 **SNOWBALL.** Very double, pure white. Excellent. Pkt. 10 cts.  
 410 **PURITY.** A new double clove-scented white Dianthus. Flowers, large and double, possessing a delicious fragrance. A decided acquisition to this large family of beautiful flowers. Pkt. 10 cts.  
 415 **WORCESTER MIXED.** All the above and other choice strains. Unsurpassed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts., oz. \$1.00.



Dianthus

## HARDY PERENNIAL VARIETIES

Clove or Grass Pinks; Dianthus plumarius

Improved forms of the old well-known Clove Pink. They grow anywhere and bloom very profusely. Flowers of many pleasing colors and deliciously fragrant. Very useful for the hardy border.

- 416 **SINGLE.** (Pheasant's Eye, Pink.) Mixed colors. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 15 cts.  
 417 **DOUBLE and SEMI-DOUBLE.** Mixed colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
 418 **FLORIST'S PERPETUAL PINK.** (D. semper-florens.) Double and semi-double; large flowers; very fragrant and of a great diversity of colors. Blooms nearly all summer and if sown in March will generally bloom the first season. Pkt. 15 cts.

## DIGITALIS

(Foxglove)

Favorite hardy plant bearing in June and July tall flower spikes. Of easy culture. Well suited for background to other plans, and for naturalizing in the edges of woods. Hardy biennial or perennial.  $2\frac{1}{2}$  to 3 feet.

- 423 **MACULATA SUPERBA.** (Ivery's Spotted.) Choice strain of spotted varieties. Pkt. 10 cts.  
 424 **MONSTROSA.** Mixed colors. Monstrous flowers. Attractive. Pkt. 10 cts.  
 427 **PURPUREA.** (Common Foxglove.) Mixed colors. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 25 cts.

428 **PURPUREA.** Rose. Pkt. 5 cts.

429 **PURPUREA.** White. Pkt. 5 cts.

## DOLICHOS

(Hyalanth Bean)

A rapid-growing hardy, annual climber, bearing all summer clusters of white or purplish blue flowers, followed by ornamental seed-pods. Sow in May where plants are to remain. 10 feet.

- 433 **Mixed Colors.** White and Purple. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.

## ESCHSCHOLTZIA

(California Poppy)

A very showy hardy annual, with beautiful, finely cut, glaucous foliage, bearing poppy-like flowers of bright colors. Of easy culture. Sow as early as soil can be worked, where plants are to remain, as they do not bear transplanting well. 1 foot.

- 439 **CALIFORNICA.** Yellow. Pkt. 5 cts.  
 440 **MANDARIN.** Inner side of petals orange; outside scarlet. Pkt. 5 cts.  
 441 **ROSE CARDINAL.** Large, white inside, rose outside. Pkt. 5 cts.  
 442 **MIXED COLORS.** Pkt. 5 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.  
 443 **ERECTA COMPACTA, ROSE QUEEN.** Rose-carmine. Pkt. 5 cts.



Eschscholtzia





# EVERYBODY KNOWS ROSS' SEED GROWS



## EUPHORBIA

Ornamental foliage plant; easily grown from seed. Striking and effective appearance. Hardy annual.

452 **VARIEGATA.** (Snow-on-the-Mountain.) Foliage veined and margined with white. 2 feet. Pkt. 10 cts.

## EXACUM AFFINE

453 A beautiful annual bearing clusters of fragrant lilac flowers. Very useful for pot culture. 1 foot. Pkt. 25 cts.

## FORGET-ME-NOT

(Myosotis)

Favorite hardy perennials, mostly treated as annuals, nearly all blooming the first season from seed sown early in the open ground. They succeed to a degree that warrants their cultivation in average soil and open situation, but thrive better in cool, moist soil, considerably shaded. 6 inches.

454 **ALPESTRIS.** (Blue Alpine Forget-me-not.) Pkt. 10 cts., 1/8 oz. 25 cts.

456 **ELIZA FONROBERT.** Large, sky blue, with yellow eye; much grown for cutting. Pkt. 10 cts., 1/8 oz. 30 cts.

457 **PALUSTRIS.** (True Forget-me-not.) Dark blue; blooms the first season. Pkt. 10 cts., 1/8 oz. 40 cts.

459 **DISTINCTION.** (Ever-flowering.) New; blooms in eight to ten weeks from sowing. Pkt. 10 cts., 1/8 oz. 30 cts.

460 **RUTH FISCHER.** The largest and finest Forget-Me-Not; flowers measure from 1/4 to 1/2 inch across and are of a lovely sky-blue; of great value for forcing, pot culture or spring bedding. Pkt. 10 cts., 1-16 oz. 50 cts.

461 **VICTORIA.** The flowers are large bright azure blue, with yellow centers. The plants form neat bushes completely covered with blooms. Best for edging. Pkt. 10 cts., 1/8 oz. 35 cts.

## FOUR O'CLOCK

(Marvel of Peru)

A well-known favorite plant, bearing freely funnel-shaped, white, red and striped flowers, which open about four o'clock in the afternoon. Will grow anywhere. Plants should be given plenty of room; about 2 feet apart. Hardy annual. 2 feet.

465 **Mixed Colors.** Pkt. 5 cts., 1/2 oz. 15 cts., oz. 25 cts.

**FOXGLOVE.** See Digitalis.

## GAILLARDIA

**ANNUAL VARIETIES** (Blanket Flower)

Very showy, free-blooming, hardy plants of easy culture. Seed germinates very slowly, and should be sown in the house in March. The flowers are very brilliant, borne on long stems. Fine for cutting. 2 feet.

470 **PICTA.** Single; mixed colors. Pkt. 5 cts., 1/4 oz. 15 cts.

471 **PICTA LORENZIANA.** Double; mixed colors. Pkt. 5 cts., 1/4 oz. 15 cts.

## PERENNIAL GAILLARDIA

Hardy perennial Gaillardias thrive in nearly all soils and situations, requiring no protection and almost no care. Flowers large; with rich shades of scarlet, orange and crimson, the three often combined in one flower. Desirable for the perennial border. If sown early will bloom the first season. 1 1/4 to 2 feet.

478 **Newest Varieties. Mixed.** A splendid mixture; comprises all the colorings known. Pkt. 15 cts., 1/8 oz. 50 cts.

## GERANIUM

Well-known, half-hardy, greenhouse perennials, easily raised from



A Hedge of Four O'Clocks



Gaillardia

seed. Seed sown in the fall or early winter will produce flowers in June, while from that sown in March, plants will not bloom until September, and from seed sown in the open ground in May or June plants will bloom in mid-winter.

485 **ZONALE.** (Fish or Horseshoe Geranium.) Saved from the largest and finest varieties. Pkt. 10 cts.

## GEUM

486 **MRS. BRADSHAW.** A very handsome, new variety, bearing immense double flowers of bright scarlet; a perpetual bloomer; fine for cutting. 2 feet. Pkt. 10 cts., 1/8 oz. 30 cts.

## GLOBE AMARANTH (Gomphrena)

488 **MIXED COLORS.** A tender annual plant, bearing globe-shaped, ever-lasting flowers, often used, when dried, in winter bouquets. Blooms freely and is an excellent bedding plant. 1 1/2 feet. Pkt. 5 cts.

## GLOXINIA

One of the most beautiful greenhouse perennials. May be successfully grown by the amateur. Give them a porous and well-enriched soil; a warm, moist atmosphere, and as soon as they begin to flower remove them to a cooler house, and afterwards dry them off gradually and keep them free from moisture till they again begin to grow. The seeds are small and should be sown on an even surface and but slightly covered.

489 **SPLENDID MIXTURE.** A mixture of all classes, unrivaled in richness of colors. Pkt. 25 cts.

## GODETIA

A showy and beautiful hardy annual, bearing fairly large delicately shaded, satiny flowers; of easy culture, blooms best in rather poor soil. Seed may be sown in the open ground, or sown in the house in March and transplanted to the open ground as soon as danger from frost is past. The plants require plenty of room. Close planting weakens them.

490 **MIXED COLORS.** Includes all varieties and the latest introductions. Pkt. 5 cts., 1/4 oz. 15 cts.

## GOURDS

Ornamental, tender annual climbers, with curiously formed and colored fruit; of very rapid growth; useful for covering unsightly objects. 10 to 20 feet.

491 **Apple-shaped.** Small, striped. Pkt. 5 cts.

492 **Dipper.** The fruit is of slender, neck-like form for two-thirds its length, widening at the apex in the form of a bowl. Sometimes used as a dipper. Pkt. 5 cts.

493 **DISH-CLOTH.** Fruit large and elongated, with a spongy net-work of tough fiber inside, which when dried is used by the Japanese to form the soles of sandals. It is also used like a sponge for bathing. Pkt. 5 cts.

494 **Egg-shaped.** Pkt. 5 cts.

495 **Hercules' Club.** 4 feet long. Pkt. 5 cts.

496 **Miniature Bottle-shaped.** Pkt. 5 cts.

497 **Orange-shaped.** Pkt. 5 cts.

498 **Pear-shaped.** Green, white-striped. Pkt. 5 cts.

499 **Serpent.** 5 feet long. Pkt. 5 cts.

500 **Mixed Varieties.** Small sorts. Pkt. 5 cts., 1/2 oz. 10 cts.





Heliotrope

- 515 **DOUBLE. MIXED COLORS.** (H. monstrosum fl. pl.) Largest double flowers. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 25 cts.

## HELIOPSIS

- 516 **PITCHERIANA.** One of the best hardy perennials for dry soils, and its graceful flowers among the best for cutting. The plant commences to bloom early in season. The flowers are of a beautiful deep yellow, of great substance, and about 2 inches diameter. 3 feet. Pkt. 10 cts.

## HELIOTROPE

- A well-known and favorite plant, largely grown in pots, but thriving in the open border; usually grown from cuttings, but grows readily from seed, blooming the first season if sown early. Half-hardy perennial.  
518 **Mixed Colors.** All shades. Pkt. 5 cts.  
519 **Large-flowering.** Mixed colors. Heads of flowers nearly double the size of the old sorts. Pkt. 10 cts.

## HEUCHERA

- 525 **SANGUINEA.** A fine, hardy perennial, bearing in graceful spikes rich crimson flowers. Useful for cutting, and the plant is useful in the mixed border. 1 foot. Pkt. 10 cts.

## HIBISCUS

- Vigorous-growing plants, producing large, handsome flowers, often six inches across. Very desirable for mixed beds or borders.  
526 **AFRICANUS.** Hardy annual, yellow. 2 feet. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.



Helenium

## GYPSOPHILA

(Baby's Breath)

Very useful, free-blooming plants of easiest culture. Flowers very small, borne in loose, graceful panicles. Very largely used in bouquets with other cut-flowers, such as Sweet Peas, Roses, Carnations, etc. 2 feet.

- 505 **ELEGANS GRANDIFLORA ALBA.** White. An improved form of the annual Gypsophila. Grown by the acre for the London and Paris flower markets. Blooms quickly after sowing; several sowings should be made. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.

- 506 **PANICULATA.** White. The variety more generally known as Baby's Breath. Hardy perennial. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 15 cts.

## GREVILLEA

- 507 **ROBUSTA.** (Silk Oak.) The graceful evergreen, fernlike foliage combines admirably with palms and other massive-leaved plants. Excellent for table decoration. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.

## HELENIUM

A very valuable hardy perennial, bearing in profusion in August and September, long stemmed single flowers; fine for cutting. Effective as a background.

- 510 **AUTUMNALE SUPERBUM.** Deep golden yellow. 5 to 6 feet. Pkt. 10 cts.

**HELIANTHUS.** See Sunflower.

## HELICHRYSUM

(Straw Flower; Everlasting)

One of the best everlasting flowers and an effective bedding plant, succeeding in any well-enriched soil. If flowers are desired for winter use, they should be cut just as the buds are opening. Hardy annual. 2 feet.



Hollyhock

## HOLLYHOCK

One of the oldest hardy favorites, greatly improved in recent years, flowers being large and of better form, and plant of more sturdy growth. While the Hollyhock delights in deep, rich soil, it must be dry and well-drained, or plants will not live through the winter. Though often sown later, seeds should be sown not later than June. As young plants bloom better and are hardier, seed should be sown every year. Hardy perennial. 5 to 7 feet.

Hollyhocks are most effective planted in long rows.

- 530 **CHATER'S FINEST MIXED.** Choicest double varieties, a large percentage of the flowers coming double. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.,  $\frac{1}{4}$  oz. 60 cts.

- 531 **Double. Mixed Colors.** Pkt. 5 cts.,  $\frac{1}{8}$  oz. 25 cts.

- 532 **ALLEGHENY.** Large, semi-double flowers, beautifully fringed, of silky texture and richly colored. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

- 534 **EVERBLOOMING HYBRIDS.** (Annual Hollyhocks.) Double. Semi-Double and Single. Mixed. A new strain, blooming the first season from seed. Plants from seed sown inside in March or April will bloom in July and those from seed sown in the open ground, in August, and, in both cases, continuously until frost if main stem is pinched off when 3 or 4 feet high. Pkt. 10 cts.

- CHATER'S DOUBLE.** 535 Maroon. 535A Pink. 536 Snow White. 536A Yellow. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.





# EVERYBODY KNOWS ROSS' SEED GROWS



## HUMULUS (Hop)

Rapid-growing climbers, with attractive foliage, especially valuable because seldom injured by insects or drought. The Japanese variety is a hardy annual, and among the best for quickly covering unsightly objects. The Lupulus, or Common Hop, is a hardy perennial, easily grown from seed, and when established, of very rapid growth. 10 to 20 feet.

537 **VARIEGATA**. Variegated foliage, green and white. Pkt. 5 cts.

## HUNNEMANNIA

540 **FUMARIAEFOLIA**. (Giant Tall Poppy, or Bush Eschscholtzia.) A valuable plant of the Poppy family, closely allied to the Eschscholtzia. A perennial, always treated as an annual, blooming by middle of July from seed sown early in May, and continually until frost. The large flowers are of a deep, rich yellow, borne on very long stems and last a remarkably long time after cutting. 2 feet. Pkt. 5 cts., 1/8 oz. 25 cts.

**HYACINTH BEAN**. See Dolichos.

## IBERIS

543 **SEMPERVIRENS**. (Perennial Candytuft.) A desirable hardy perennial of easiest culture. Dwarf spreading habit; suitable for rockeries. Flowers pure white. Pkt. 10 cts., 1/8 oz. 30 cts.

## ICE PLANT

(Mesembryanthemum)

546 **CRYSTELLINUM**. A trailing plant, with succulent stems and leaves. Excellent for hanging baskets and rockwork. Tender annual. 9 inches. Pkt. 10 cts.

## IPOMEA

The Ipomoea family includes the well-known Morning-glory, the Moonflower and the Cypress Vine. Rapid-growing climbers of easiest culture; bloom earlier and more profusely on rather poor soil but of higher growth and more attractive foliage when grown on rich soil. Tender annuals. 15 to 30 feet.

550 **BONA NOX**. (Evening Glory.) Beautiful, large, violet-blue flowers which open at night. Of extremely rapid growth. Pkt. 5 cts.

551 **COCCINAE**. (Star Ipomoea.) Small scarlet flowers, borne in profusion. Pkt. 5 cts.

552 **SETOSA**. (Brazilian Morning-Glory.) A handsome variety of luxuriant growth, having very large three-lobed leaves, the under side and stem being thickly set with small reddish hairs. Flowers are a pleasing rose, about 2 1/2 inches across, of delicate satiny texture and borne in clusters, but one or two in each cluster opening at once. Pkt. 10 cts.

553 **RUBRA COERULEA**. (Heavenly Blue.) Large, heart-shaped leaves; flowers 4 to 5 inches across, borne in clusters and in such profusion as to nearly cover the foliage; bright sky-blue. Pkt. 10 cts.

## JERUSALEM CHERRY

(Solanum)

An ornamental and interesting genus of fruit-bearing plants; singularly bright in fruit and foliage. Popular for greenhouse or house decoration.

555 **SOLANUM CAPSICASTRUM**. Covered with scarlet fruit during the winter. One and one-half feet. Pkt. 10 cts.

## KOCHIA

556 **TRICOPHYLLA**. (Summer Cypress.) A very quick-growing annual; cultivated for its beautiful foliage, which is feathery and fine as moss. Through the summer this is bright green, but commences in early fall to gradually take on a red tinge, becoming entirely red before it dies. The brilliant coloring has given it its other two common names of Mexican Fire Plant and Burning Bush. It is often grown in rows as low hedges. Seed may be sown in the open ground about May 1. Hardy annual. 2 1/2 feet. Pkt. 10 cts., 1/4 oz. 20 cts.

**JOB'S TEARS**. See Coix Lachryma.



Matricaria



Kochia

## KUDZU VINE (Pleuraria)

560 **THUNBERGIANA**. (Jack-and-the-Beanstalk Vine.) A vine of wonderful rapid growth, when well established growing to the great height of 40 to 50 feet. Leaves are of enormous size. One of the best for forming a screen for any purpose. In the North, the plant dies to the ground in the winter, but in the South becomes woody. Hardy perennial. Pkt. 10 cts.

## LANTANA

A favorite plant of rapid growth, blooming continually through the summer; desirable for the garden or house. Tender perennial. 2 feet.

562 Mixed Colors. Pkt. 5 cts.

## LATHYRUS LATIFOLIUS

(Everlasting Sweet Pea)

An easily grown hardy perennial climber, bearing freely, flowers somewhat similar in form to the Sweet Pea. If grown on moist soil, will bloom nearly all summer. Colors: Reddish purple, rose and white. 6 to 8 feet.

570 Mixed Colors. Pkt. 5 cts., 1/2 oz. 20 cts., oz. 35 cts.

## LAVENDER (Lavendula Vera)

575 **VERA**. A well-known hardy perennial grown chiefly for its lasting fragrance. Pkt. 10 cts., 1/4 oz. 15 cts.

## LAVATERA TREMESTRIS

Beautiful and effective hardy annual, covered during the entire summer with pretty and showy blossoms.

576 Rose Pink. 577 White. Pkt. 10 cts., 1/2 oz. 20 cts.

## LINUM (Scarlet Flax)

580 **GRANDIFLORUM**. (Scarlet Flax.) A hardy annual of slender habit, bearing in profusion brilliant scarlet-crimson flowers. An effective bedding plant. 1 foot. Pkt. 5 cts.

## LOBELIA

Pretty little plants of easy culture, blooming profusely from June until frost. The dwarf varieties are useful for bedding and edgings, the trailing variety is excellent for hanging-baskets, vases and rock-work. Half-hardy annuals.

585 **CRYSTAL PALACE COMPACTA**. Rich blue flowers, dark foliage. Pkt. 10 cts.

586 **WHITE GEM**. White Dwarf; very profuse. Pkt. 10 cts.

587 **GRACILIS**. Light blue, trailing. Pkt. 5 cts.

588 **CARDINALS**. Intense scarlet. 3 feet. Pkt. 10 cts.

**LOVE-IN-A-MIST**. See Nigella.

## LUPIN

590 Annual Varieties, Mixed. Easily grown plants, with long, graceful spikes of pea-shaped flowers of various colors. 2 feet. Pkt. 5 cts., oz. 35 cts.

591 Perennial Varieties, Mixed. Hardy plants of easy culture, useful as a background in the perennial border. Mixed blue and white. 3 to 4 feet. Pkt. 5 cts., 1/2 oz. 30 cts., oz. 50 cts.





## LYCHNIS

Perennial plant of easy culture, blooming the first season if sown early.  
595 **CHALCEDONICA.** (Burning Star.) Bright scarlet flowers shaped like Maltese cross. Of fine color and thrifty growth; very effective in the perennial border. 2 feet. Pkt. 5 cts.

## MARIGOLD

Favorite annual plant, blooming the entire summer; easily cultivated. The African varieties bear large yellow or orange flowers and the plants are usually tall. The French type is of dwarf habit and flowers are striped. Hardy annual. 1 to 3 feet.  
600 **AFRICAN ELDORADO.** Flowers very large, extremely double. of various shades of yellow. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.  
601 **LEMON BALL.** The largest of all Marigolds, nearly ball-shaped; pure lemon yellow. Pkt. 10 cts.  
602 **ORANGE PRINCE.** Large, rich orange. Pkt. 10 cts.  
603 **DOUBLE MIXED.** All shades of the African type. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.  
606 **FRENCH DWARF DOUBLE, GOLD STRIPED.** Deep browning red, striped yellow. Pkt. 5 cts.  
607 **FRENCH DOUBLE MIXED.** Shades of yellow and brown. 2 feet. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.  
608 **LEGION OF HONOR.** Single flower; golden yellow, with a large spot of crimson. Pkt. 5 cts.

## MATHIOLA BICORNIS (Night Scented Stock)

610 A hardy annual with purplish red flowers, giving forth a delightful fragrance, es-

pecially towards evening. 1 foot. Pkt. 5 cts  $\frac{1}{4}$  oz. 15 cts.



Marigold, Gold Striped

619 **MACHET.** Large, thick spikes of reddish cast, of dwarf habit, dark foliage. One of the best for pots. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.  
620 **PARSON'S WHITE.** Nearly white. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.  
621 **VICTORIA.** Of deep reddish cast. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.  
622 **GOLIATH.** Of strong, yet compact habit, with rich green foliage; the giant trusses of flowers being borne on erect, strong, stiff stalks and surpassing all others in brilliancy of color; especially suited for house culture. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
625 **MIXED VARIETIES.** The above and other varieties. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.

## MIMULUS

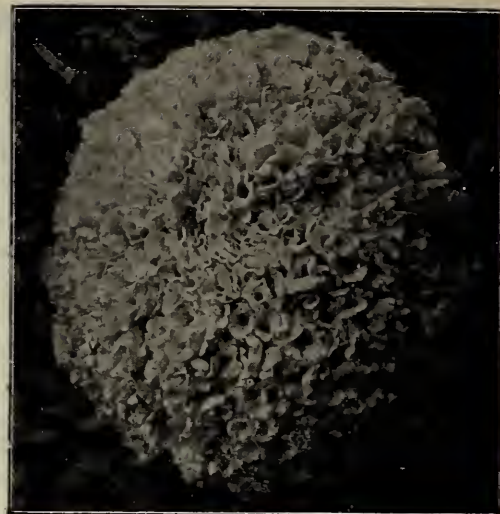
Showy, free-flowering plants of easy culture. Half-hardy perennials, blooming the first season by July, if started early in the house, and continually until October. Thrives best in moist soil and somewhat shaded location. 1 foot.

630 **TIGRINUS.** (Monkey Flower.) Handsome flowers with white, sulphur or yellow ground spotted with crimson, scarlet or pink. Pkt. 10 cts.  
631 **MOSCHATUS.** (Musk Plant.) Small yellow flowers, musk-scented foliage, of trailing habit, excellent for hanging baskets. Pkt. 10 cts.

## MOONFLOWER (Ipomoea)

635 **GRANDIFLORA ALBA.** (Ipomoea noctiflora.) A very rapid-growing variety of Ipomoea, reaching the height of 30 feet. Large white flowers, open in the evening and on cloudy days. Germination is greatly assisted if the hard shell of the seed is cut. Plant about 1 inch deep, in moist soil, in a box or seed-pan, and set in a warm place. If soil is kept moist the seed will germinate in about two weeks. Set out the young plants as soon as all danger of frost is past, selecting a warm sunny location. Pkt. 10 cts.

635B **PINK HYBRID MOONFLOWER.** In color, exquisite, soft lilac-pink. Of much easier cultivation than the preceding. Seeds germinate freely and plant commences to bloom profusely nearly as soon as the Morning Glory. Vines are of most rapid growth, and will cover as much or more space than any other Moonflower, having enormous leaves. Blooms very profusely and will succeed wherever the Morning Glory will. Pkt. 10 cts.



Marigold, Eldorado

## MATRICARIA

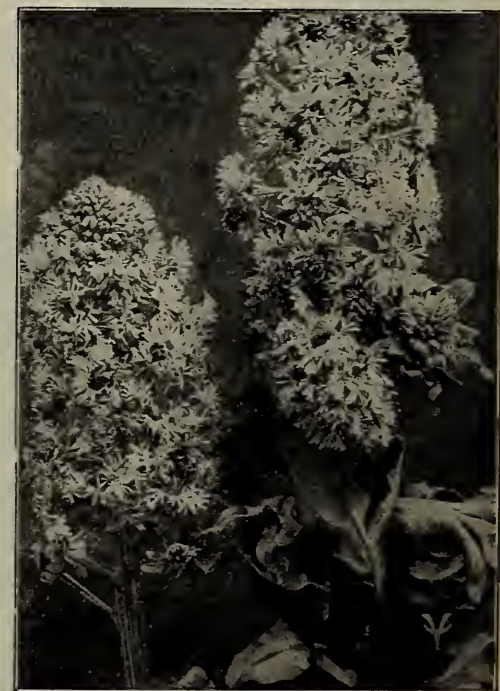
Free-flowering annuals, useful for groups, borders, or pot culture. Fine for cut flowers.  $1\frac{1}{2}$  feet.

611 **DOUBLE WHITE.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
612 **DOUBLE YELLOW.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.

## MIGNONETTE (Reseda odorata)

A well-known and popular hardy annual, prized for its delightful fragrance. Seeds sown in autumn will bloom in early spring, and when sown the last of July will come into flower in a few weeks and continue until cut down by frost.

614 **GOLDEN MACHET.** Long, massive spikes, with fragrant, golden-yellow flowers. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.  
615 **GRANDIFLORA.** Improved, large-flowered. Sweet Mignonette. Pkt. 5 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.  
616 **DEFIANCE.** Large spikes and extra-large individual florets. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 15 cts., oz. 75 cts.  
617 **GIANT PYRAMIDAL.** (Crimson Giant.) Of branching growth; large, of reddish cast. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.  
618 **GOLDEN QUEEN.** Golden yellow. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.



Mignonette





# EVERYBODY KNOWS ROSS' SEED GROWS



## MORNING GLORY (*Convolvulus major*)

- A well-known vine of easiest culture. Hardy annual. 10 feet.
- 636 **MIXED COLORS.** Pkt. 5 cts.,  $\frac{1}{2}$  oz. 10 cts., oz. 15 cts.
- 637 **JAPANESE GIANT MORNING-GLORIES.** The flowers of this strain are much larger than those of the common type, the range of colorings much greater, while the foliage is greatly varied and very attractive. The colors range from deepest purple through all shades of blue and red to pure white, in a great variety of beautiful blendings and markings. The vine is not so hardy nor so vigorous in its growth as the common type. Germination is assisted by soaking the seed in water for twenty-four hours before sowing. Tender annual. 8 feet. Pkt. 5 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.
- MOURNING BRIDE.** See Scabiosa.
- MUSK PLANT.** See Mimulus.
- MORNING GLORY, DWARF.** See *Convolvulus minor*.

## NASTURTIUM

No other annual plant combines in so great a degree, ease of culture, profusion of bloom, and grace and beauty of flowers as the Nasturtium. Also, it thrives on all soils except that which is very wet and succeeds on soil so poor that many other plants would fail to grow at all.

### TALL NASTURTIUM (*Tropaeolum majus*)

- 640 **ATROPURPUREUM.** Rich, dark crimson.
- 642 **CHAMELEON.** Varies in color and markings of flowers on the same plant.
- 644 **COCCINIA.** Bright scarlet.
- 646 **DUNNETT'S ORANGE.** Bright orange, blotched red.
- 648 **EDWARD OTTO.** Brownish lilac.
- 650 **GOLDEN-LEAVED SCARLET.** Deep scarlet; light yellowish foliage.
- 652 **HEINEMANNI.** Chocolate-color.
- 654 **HEMISPHERICUM.** Straw-color blotched rose.
- 656 **KING THEODORE.** Deep crimson-maroon; dark foliage.
- 658 **LUTEUM.** Clear light yellow.
- 662 **PEARL.** Very pale yellow, nearest approach to white.
- 664 **REGALIANUM.** Deep crimson-violet.
- 666 **SALMON QUEEN.** (Improved Vesuvius.) Rich, but soft velvety salmon; dark foliage.
- 670 **VON MOLTKE.** Bluish rose.
- 671 **VESUVIUS.** Salmon rose, dark leaved.
- Each of the preceding varieties, pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts.
- 672 **CHOICE MIXED.** Many varieties; a wide range of colors. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40. See also, Worcester Mixed Tall Nasturtiums..
- GIANT-FLOWERED, TALL NASTURTIIUMS, MIXED.**
- 673 A choice selection of the largest flowered varieties and seedlings. Especially desirable for exhibition. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts., 2 ozs. 40 cts.,  $\frac{1}{4}$  lb. 65 cts.



Nasturtium

### LOBB'S TALL NASTURTIUM (*Tropaeolum Lobbianum*)

While both flowers and foliage are slightly smaller than those of the preceding common Nasturtium, this class is preferred by many because of the greater profusion of bloom and its more brilliant coloring.

- 675 **ASA GRAY.** Light yellow, almost white.
- 677 **BLACK PRINCE.** Very dark, nearly black. Foliage dark.
- 679 **BRILLIANT.** Dazzling scarlet.
- 680 **CARDINALE.** Rich, cardinal-red.
- 681 **FIREFLY.** Deep orange, spotted red.
- 683 **GIANT OF BATTLE.** Light yellow, spotted red.
- 685 **GOLDEN QUEEN.** Clear, golden yellow.
- 687 **KING OF THE BLACKS.** Deep, rich maroon. Dark foliage.
- 689 **LUCIFER.** Deep scarlet. Dark foliage.
- 695 **REGINA.** Brilliant salmon, changing to deep cream.
- 700 **LOBBIANUM.** Choicest mixed. A mixture of all varieties of this desirable class. Pkt. 10 cts., oz. 20 cts., 2 ozs. 30 cts.,  $\frac{1}{4}$  lb. 50 cts.

### WORCESTER TALL MIXED

- 705 **WORCESTER MIXED TALL NASTURTIIUMS.** Our own mixture of many varieties; comprises selections from all classes, including the New Variegated-Leaved, or Queen, and choice mixture from different growers. Of the greatest possible diversity of colors and types, but well-balanced, including larger proportions of the most desirable varieties. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.



Nasturtium





## NASTURTIIUM (Continued)

### DWARF, OR TOM THUMB NASTURTIIUMS

While the flowers, not having as long stems, are perhaps not quite as desirable for cutting as those of the Tall Nasturtium, the Dwarf Nasturtium is not surpassed by any other annual plant for bedding, being of the easiest culture, thriving in nearly all soils and blooming profusely the entire season.

Except where otherwise noted, all of the following varieties at uniform prices. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts.

- 710 **AURORA.** Bright primrose, veined carmine.
- 712 **BEAUTY.** Orange with scarlet markings.
- 714 **BRONZE-COLORED.** A very distinct and peculiar shade.
- 716 **CHAMELEON.** Flowers of different colors or markings on the same plant.
- 718 **CLOTH OF GOLD.** Brilliant scarlet, foliage golden yellow.
- 722 **CRYSTAL PALACE GEM.** Rich, sulphur-yellow, spotted carmine.
- 724 **EMPRESS OF INDIA.** Dark scarlet, foliage distinct dark purplish green.
- 726 **GOLDEN KING.** Rich golden-yellow.
- 728 **GOLDEN QUEEN.** Both flowers and foliage yellow.
- 730 **KING THEODORE.** Dark maroon; dark foliage.
- 732 **KING OF TOM THUMBS.** Rich scarlet, dark foliage.
- 734 **LADY BIRD.** Orange-yellow, suffused red; blotched brighter red at base of petals.
- 736 **PEARL.** Light cream, nearly white.
- 738 **PRINCE HENRY.** Light straw-yellow, spotted and suffused with rose.
- 742 **RUBY KING.** Ruby-red, dark leaved.
- 743 **SPOTTED KING.** Yellow, with brown spots.
- 744 **VESUVIUS.** Rich salmon-pink.
- 746 **CHOICE MIXED.** While not equal to the Worcester Mixed, of a wide range of colors and will give pleasing results. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.
- 747 **WORCESTER MIXED DWARF NASTURTIIUM.** Like the Worcester Tall Mixed this is of our own preparation and cannot be surpassed in diversity of colors and types; includes all the named varieties and classes here described and other choice mixtures of noted growers. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.
- 749 **VARIEGATED LEAVED, or QUEEN OF TOM THUMBS, MIXED.** A mixture of all the varieties yet named and several unnamed seedlings of this new, distinct and charming type. Of various distinct colors; shades—light-primrose, deep scarlet, crimson and deep orange more or less veined or spotted with other colors. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.



Nicotine Sandera

Photo reproduced of plant showing its bushy habit and great production of flowers

## NEMESIA

A very valuable introduction—long blooming annual with large flowers varying from creamy white to deep orange and carmine. Most useful for bedding.  $1\frac{1}{2}$  feet.

- 756 **STRUMOSA SUTTONI.** Pkt. 15 cts.

## NEMOPHILA (LOVE GROVE)

An attractive hardy annual, bearing cup-shaped flowers about an inch in diameter, usually in shades of blue and white, often spotted with brown. Succeeds in cool, shaded places, in light, but rather moist loam. 6 inches.

- 757 **MIXED.** Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.

## NICOTIANA

(Flowering Tobacco)

Handsome, effective, half-hardy annuals, blooming profusely the entire season, and thriving in all soils. Seed may be sown early in the house, or in the open ground as soon as the soil is warm.

- 758 **AFFINIS.** White, star-like flowers, deliciously fragrant, expands fully in the evening. 2 to 3 feet. Pkt. 5 cts.
- 759 **SANDERAE.** Rose-carmine; remarkably profuse in bloom. Unlike the Affinis, is in full bloom during the day. 3 to  $3\frac{1}{2}$  feet. Pkt. 10 cts.
- 760 **SANDERAE HYBRIDS.** New Hybrids, comprising several distinct colors or shades. Pkt. 10 cts.

## NIGELLA

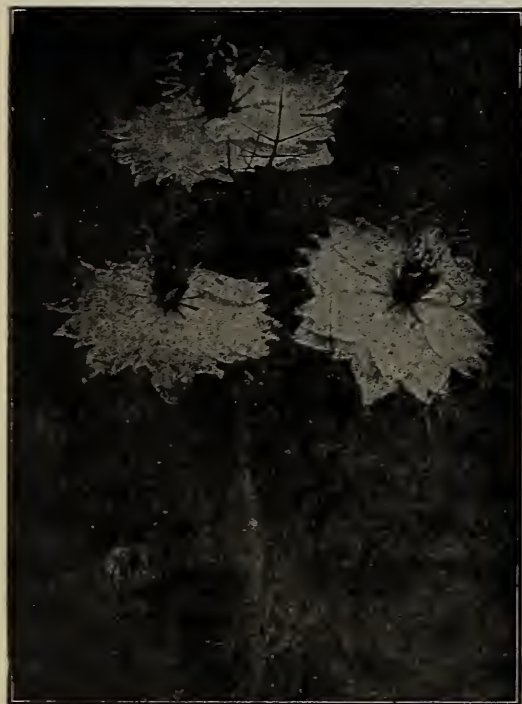
(Love-in-a-Mist; Lady-in-Green; Devil-in-a-Bush)

A favorite hardy annual of the easiest culture. The blue or white flowers are half-hidden in the abundant finely cut foliage, hence its common names. 1 to  $1\frac{1}{2}$  feet.

- 761 **Blue and White.** Mixed. Pkt. 5 cts.

## ORNAMENTAL GRASSES

- 764 **AGROTIS NEBULOSA.** An airy and graceful annual grass, grows 18 inches high and looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt. 5 cts.
- 765 **COIX LACHYMA.** (Job's Tears.) 9 feet. Large, broad leaves, large shiny seed. Hardy annual. Pkt. 5 cts.
- 766 **EULALIA ZEBRINA.** (Zebra Grass.) Dark green leaves crossed by yellowish white bars. Hardy annual. Pkt. 5 cts.
- 767 **PENNISETUM LONGISTYLUM.** Graceful drooping heads. Excellent for bouquets. 2 feet. Hardy annual. Pkt. 5 cts.
- 768 **PENNISETUM RUPELIANUM.** Foliage long and slender, the silvery plumes tinged with violet. 3 feet. Hardy annual. Pkt. 5 cts.



Nigella





# EVERYBODY KNOWS ROSS' SEED GROWS



## PANSIES

Pansies are too well known to require any description, as they are favorites with all. For best results you must start with a good strain. The finest Pansies are, as a rule, shy seeders, which accounts for the difference in the price of the various mixtures offered.

Sow Pansy Seed in August or September, in fresh, moist soil, cover lightly and press seeds in with a board. Keep the bed moist by watering, and if the weather is hot and dry, by mulching with straw or by shading with cloth. The seeds will germinate in about two weeks, when the straw or cloth should be removed. In from four to six weeks, transplant to a slightly raised bed, setting the plants about 3 inches apart each way. Protect during winter with straw or leaves, and transplant to desired location early in the spring. Seed may be sown in the open ground in the spring as soon as soil can be fitted. A much earlier sowing can be made in a coldframe, but is not necessary. The ideal location is one somewhat sheltered from the wind, which has the morning sun and is shaded during the hottest part of the day. Seed sown in June in a cool place will make fine blooming plants by fall, when the weather is cool and the Pansy blooms best.

The seed which we offer of the choicest strains is of unsurpassed quality. Other strains at lower prices are of excellent quality, comprising every other extra-large flowers.

Note that our packets of Pansy seeds are larger than usually offered, rarely containing less than 200 seeds, and more often 250 to 350.

**770 BUGNOT'S SUPERB BLOTCHED.** Rare shades of red, bronze or brown. Pkt. 25 cts.,  $\frac{1}{8}$  oz. 80 cts.,  $\frac{1}{4}$  oz. \$1.40, oz. \$5.

**771 CASSIER'S GIANT BLOTCHED.** A very carefully selected strain of five, blotched varieties, remarkable for the enormous size of the flowers and the many rare combinations of shades and colors. Pkt. 25 cts.,  $\frac{1}{8}$  oz. 80 cts.,  $\frac{1}{4}$  oz. \$1.40, oz. \$5.

**773 TRIMARDEAU GIANTS.** Flowers of the largest size, with a dark blotch on the three lower petals. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts.

**774 TRIMARDEAU PARISIEN, LARGE-STAINED.** A beautiful improved strain mostly white ground and five-blotched varieties. Pkt. 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.00.

**776 MADAME PERRET.** (Phenomena.) A strain, distinctly beautiful pink, blotched or veined with rose, crimson or purple, the upper petals either self-colored with rich wine-red or deep purple, or with a margin of white. Pkt. 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.00.

**778 MASTERPIECE.** Ruffled Pansies. A strain having ruffled and curled petals, giving the flowers the appearance of being double. Colors rich and striking. Pkt. 20 cts.,  $\frac{1}{8}$  oz. 70 cts.,  $\frac{1}{4}$  oz. \$1.25.

**779 WORCESTER GIANT MIXED.** Our own selection of choice large-flowered strains and varieties, including a proportion of all the preceding strains, the named separate sorts, and several choice strains from different growers. Wonderful colors, shades and markings, representing nearly every type of Pansy. Pkt. 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.

**780 ROSS' SELECTED GIANT MIXED.** This is one of the finest strains known, the flowers being of perfect form and richest colors. A Giant Pansy, excellent for growing in the frame or out of doors. Pkt. 50 cts., 1-16 oz. \$1.00,  $\frac{1}{8}$  oz. \$1.75,  $\frac{1}{4}$  oz. \$3.25, oz. \$12.00.

**782 LARGE FLOWERED MIXED.** Our own mixture of varieties. The range of colorings is excellent, and the mixture will be found very satisfactory. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts.

**783 ENGLISH PRIZE MIXED.** Includes many with face-like markings of various shades. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.



Pansy

**785 CHOICE MIXED.** A mixture of many varieties. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.,  $\frac{1}{4}$  oz. 75 cts., oz. \$2.50.

**786 GIANT ADONIS.** Splendid light blue, with white center and dark blotches. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**788 SKY-BLUE.** Ultramarine-blue, with dark center. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**790 FREYA (Silver-edged).** Very fine. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**792 GOLDEN QUEEN.** Pure yellow. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**794 INDIGO-BLUE.** New rich shade. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**796 KING OF THE BLACKS.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**798 LIGHT BLUE.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**800 LORD BEACONFIELD.** Violet, shading to white at the top. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**802 MAUVE QUEEN.** New, beautiful mauve. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**804 PEACOCK.** Rich blue and purple, edged white; very striking. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**806 RUBY KING.** Superb reddish shades. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**808 SNOWFLAKE.** Pure white. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**810 STRIPED.** Rich dark shades. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

**811 YELLOW.** With large, black eye. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

## PETUNIA

The Petunia is easily grown, and, blooming profusely all summer, is very popular for bedding. It thrives best in a warm, sunny location. Sow seed thinly where plants are to remain, in beds for transplanting, or, for early blooming, in the house in boxes. Almost invariably the weaker plants produce the finer flowers, especially of the choice strains.

**812 MIXED COLORS.** A fine mixture of the common small-flowered type. Pkt. 5 cts.,  $\frac{1}{8}$  oz. 15 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.

**814 FINEST MIXED.** A superior mixture. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.,  $\frac{1}{4}$  oz. 40 cts., oz. \$1.50.

**815 STRIPED AND BLOTCHED MIXED.** A choice strain. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.

**816 HOWARD'S STAR.** Rich shade of maroon, with five-pointed star of white. Very pretty. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.

**817 DWARF INIMITABLE, MIXED COLORS.** Dwarf, bushy plants, flowers mostly beautifully striped and blotched. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.

**818 ROSY MORN.** A single flower, color soft carmine pink. A profuse bloomer. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

**822 LARGE-FLOWERING, EXTRA CHOICE MIXED.** A superior mixture of large-flowered varieties with beautiful markings. Pkt. 20 cts.

**824 GIANTS OF CALIFORNIA.** A superb strain. Flowers are of remarkable substance, enormous size and many are beautifully fringed. Of almost every conceivable shade; veined, striped or blotched with some contrasting shade. Plant of vigorous growth and blooms profusely. Pkt. 25 cts.

**825 DOUBLE, LARGE-FLOWERED, CHOICE MIXED.** An excellent mixture comprising a large variety of colors, with a good percentage of double flowers. Pkt. 50 cts.



Petunia





## PHLOX DRUMMONDII

Seed may be sown in the open ground early in the spring, either where the plants are desired to bloom, or in beds, and the young plants set in the desired location when 2 or 3 inches high. The tall sorts should stand about 12 inches apart, the dwarf about 6 inches. The plants will be more bushy and cover the ground better if pinched off while small.

- 830 **Mixed Colors.** Pkt. 10 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.  
**LARGE-FLOWERING.** (Phlox Drummondii grandiflora.) A great improvement on the common type, both heads and florets being nearly twice as large.  
 831 **Extra-Choice, Mixed Colors.** Our own mixture of the choicest and best strains from different growers. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts., oz. \$1.00.  
 832 **BLACK WARRIOR.** Dark red. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.  
 833 **ISABELLINA.** Pure yellow. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.  
**DWARF.** (P. Drummondii nana compacta.) The plants of this class, growing only 6 to 8 inches high, are considered by many, very desirable for bedding.  
 837 **FIREBALL.** Bright scarlet. Pkt. 10 cts.  
 838 **SNOWBALL.** Pure white. Pkt. 10 cts.  
 840 **Dwarf Mixed Colors.** All choice varieties. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
**LARGE-FLOWERING DWARF.** A new strain, combining the large heads and individual flowers of the Grandiflora type, with the dwarf compact habit of the Nana compacta.  
 841 **Mixed Colors.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.  
**STAR, or FRINGED.** (P. Drummondii Cuspidata.) A distinct class with petals partly fringed, partly toothed, and some longer than others and regularly placed, give the flowers a star-like shape.  
 843 **Mixed Colors.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
**DOUBLE.** Double and semi-double flowers. A very desirable class for cutting.  
 845 **Mixed Colors.** Pkt. 10 cts.  
**HARDY PERENNIAL PHLOX.** Well-known, popular herbaceous, perennial, easily grown from seed.  
 847 **Choicest Mixed.** Saved from only the finest varieties. All colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.  
**PINK.** See Dianthus.

## PLATYCODON

(Chinese Bellflower)

- 855 **GRANDIFLORUM.** One of the best hardy perennials, and one of the easiest grown, its propagation being more easily accomplished by seed than by division of the root. It forms clumps and is well adapted to the hardy border. Blooms from July to September. The flowers are large steel-blue, rather more open than bell-shaped, 2 to 2½ feet. Pkt. 10 cts.

## POLEMONIUM

- 857 **COERULEUM.** A hardy perennial, very popular in olden times. Easily grown from seed, preferably sown in the fall. Large heads of showy blue flowers from May to August. 2 feet. Pkt. 5 cts.



Shirley Poppy



## POPPY Hardy Phlox

Well-known hardy plants of quick growth, blooming profusely for a considerable time, thriving best on light, sandy loam. Seed of the annual varieties should be sown as early in the spring as possible and where desired to bloom as they do much better when they start to grow in cool weather and are very difficult to transplant. The seed is fine and should be only slightly covered.

### SINGLE ANNUAL POPPIES

- 860 **ADMIRAL.** Large, single, peony-flowered variety, glistening white, with broad band of brilliant scarlet at the top. Pkt. 10 cts.  
 862 **DANEBROG, or DANISH CROSS.** Brilliant scarlet with white spots at base of each petal. Pkt. 5 cts.  
 863 **MEPHISTO.** Beautifully tinged, usually brilliant scarlet with black spots, but varies to rose and white. Pkt. 5 cts.  
 864 **MISS SHERWOOD.** Fine large flower, satiny white with upper half delicate rose, a distinct and beautiful combination of unusual value. Excellent for cutting. Pkt. 10 cts.  
 866 **THE BRIDE.** Large, pure white. Pkt. 5 cts.  
 868 **TULIP-FLOWERED.** Bright scarlet, cup-shaped flower. Pkt. 5 cts.  
 870 **SHIRLEY.** A lovely strain, comprising many delicate and rich shades, ranging from pure white through pink, rose, scarlet and red to the deepest crimson, the darker shades often having a margin of white. Many of the flowers have crimped or wavy petals, all are of fine silky texture, but of good substance, and not surpassed by any for cutting. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts.  
 872 **SHIRLEY, SANTA ROSA STRAIN.** Acknowledged the best and most varied strain in existence. Unusually large flowers, remarkably clear colors, including new striped, new salmon shades and new bluish ones, all mixed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.  
 874 **UMBROSUM.** Rich vermilion with a spot of glistening black on each petal. Very showy. Pkt. 5 cts.

### DOUBLE ANNUAL POPPIES

- 878 **CARNATION-FLOWERED. Mixed.** Fine, large, fringed flowers of many colors, a popular class. Pkt. 5 cts., oz. 20 cts.  
 880 **CARDINAL.** Very large, pure cardinal-red; deeply cut, dark green foliage; very attractive. Pkt. 5 cts.  
 882 **GOLDEN POPPY.** Striking golden-yellow foliage, and flowers in different shades of red. Pkt. 10 cts.  
 884 **PEONY-FLOWERED.** Mixed. Large, globular flowers resembling a peony. Pkt. 5 cts., oz. 20 cts.  
 886 **SNOWDRIFT, or DOUBLE WHITE FRINGED.** Flowers from 3 to 4 inches across, very double and finely fringed. Pure white. Pkt. 5 cts., all types and colors. Pkt. 5 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.  
 888 **WORCESTER MIXED.** Our own mixture of single and double annual varieties;



## HARDY PERENNIAL POPPIES

**ICELAND POPPIES.** Though hardy perennials, generally treated as annuals, blooming the first year, if seed is sown early. Of graceful habit, with fern-like foliage. They bloom profusely, and, if no seed-pods are allowed to form, until October.

890 **White and Shades of Yellow and Orange. Mixed.** Pkt. 5 cts., 1/8 oz. 20 cts.

**ORIENTAL POPPIES.** Extremely desirable for hardy perennial border; gorgeous blooms. Easily grown from seed sown either in late fall, or early spring. They bloom the second spring from sowing, and, though their season is short—about three weeks in June they make a very effective display.

892 **ORIENTALE.** Deep crimson flowers, with blotch of black on each petal. Pkt. 10 cts., 1/8 oz. 25 cts.

893 **NEW ORIENTALE HYBRIDS.** Flowers of enormous size, sometimes 6 inches or more in diameter and of many novel colors. Pkt. 10 cts.

## PORTULACA

Well-known tender annuals, blooming profusely all summer. Thrive in most soils and locations, but succeed best in a light, sandy soil and sunny spot, enduring any amount of dry weather. Form a dazzling display when sown in masses.

894 **DOUBLE CHOICE MIXED.** Usually from fifty to sixty per cent of the flowers will come double. Pkt. 10 cts., 1/8 oz. 40 cts., 1/4 oz. 65 cts.

895 **SINGLE SCARLET.** 896 Rose. 897 White.. 898 Yellow. Pkt. 10 cts., 1/4 oz. 20 cts., 1/2 oz. 35 cts.

899 **SINGLE MIXED.** Pkt. 5 cts., 1/2 oz. 25 cts., oz. 40 cts.

## PRIMULA

(Primrose)

**PRIMULA SINENSIS** (Chinese Primrose). A beautiful winter-blossom greenhouse perennial and one of the most pleasing for the home, blooming from December to spring. While its culture is not easy, it is by no means impossible for the amateur to raise fine, thrifty plants from seed. For early winter blooming seed should be sown the first week in April. Two sowings are advisable, but the second should not be later than the middle of May. Sow in well-drained shallow pans or boxes, using finely sifted loam, leaf mold and sand in equal parts. Cover lightly and water carefully, but well. Keep moist and in shade, and in a temperature of about 60 degrees. In summer keep in a cool, shady location, in winter in a north window in a temperature of 45 degrees.

900 **CHOICEST MIXED.** Comprises the finest fringed varieties. Pkt. 35 cts.



Salvia

**PRIMULA OBCONICA.** Easily grown. Seed sown in May will produce blooming plants by early fall. A beautiful pot plant and does well in the open ground in a cool, shady location if soil is strong, moist and rich. The treatment is about the same as of the Chinese Primrose except that the seeds should be sown in good porous soil, as they do not germinate well in leaf mold. The soil for final potting should be heavy and the plants should be kept in temperature of from 50 to 60 degrees.

901 **GRANDIFLORA.** Blooms profusely; white, shading to lilac. Pkt. 10 cts.

902 **PRIMULA STELLATA.** Star-like flowers borne in clusters, producing a large variety of colors; plants are very graceful and fine for winter flowering. Pkt. 35 cts.

## HARDY PRIMROSES

Although known as a hardy perennial, these require in this climate some protection. They may be placed in a cold-frame, or if protected with leaves covered by a box, they will live through our severest winters. They are among the best of the early-blooming plants.

**ELATOIR** (Polyanthus). Excellent for either pot or outdoor. Colors mostly shades of yellow, and red and yellow

903 **CHOICEST MIXED.** Pkt. 10 cts.

904 **VULGARIS.** True yellow English Primrose; canary yellow; fragrant. Pkt. 10 cts.

## PYRETHRUM

Well-known hardy herbaceous perennials of easy culture.

910 **AUREUM** (Golden Feather. Golden foliage; small, white flowers. Cultivated for its foliage alone and usually treated as an annual. 1 foot. Pkt. 5 cts.

913 **ROSEUM HYBRIDUM.** Blooms freely from June to September, bearing large-flowering, daisy-like flowers ranging from light pink to deep red, with bright yellow center; excellent for cutting. Pkt. 10 cts.

**ROSE CHAMPION.** See *Agrostemma Coronaria*.

**ROSE OF HEAVEN.** See *Agrostemma Coeli*.

**RICINUS.** See *Castor Bean*.

**RESEDA.** See *Mignonette*.

## RHODANTHE

One of the finest everlasting flowers and an excellent plant for garden decoration. If flowers are gathered before they are fully expanded and dried in the shade, they will retain their color for years. Tender annual. 1 foot.

920 **MIXED COLORS.** All shades of pink, rose, crimson and white. Pkt. 5 cts.

## ROCKET (Sweet) (*Hesperis Matronalis*)

Hardy perennial plant of easy culture, bearing clusters of purple or white fragrant flowers. 1 1/2 feet.

921 **Mixed.** Pkt. 5 cts.

## RUDBECKIA

(Cone Flower)

To this family belong the favorite plant, Golden Glow, and the well-known wild flower, Black-eyed Susan, or Yellow Ox-Eye Daisy. Both the annual and the perennials are of the easiest culture and grow in nearly all soils and situations, thriving alike in partial shade or fully exposed to the sun.

923 **BICOLORE SUPERBA.** Free-blooming annual of dense, bushy growth, bearing on long stems, large, bright yellow flowers with velvety brown spots at base of petals, and disc or cone of brown. Excellent for cutting. 2 feet. Pkt. 5 cts.

925 **NEUMANNI.** Large, golden yellow flowers, with maroon cone. Very showy; blooms for a long time. One of the best hardy perennials. 2 feet. Pkt. 15 cts.

926 **PURPUREA** (*Echinacea*; Giant Purple Cone-Flower). Large flowers, about 4 inches in diameter, reddish purple, with large cone of brown. Hardy perennial. 3 feet. Pkt. 15 cts.

## SALPIGLOSIS

(Velvet Flower; Painted Tongue)

Graceful, half-hardy annual, bearing from August to October, richly colored, funnel-shaped flowers, ranging from deepest purple to almost black and blue, through various shades of red, brown and yellow, to creamy white, usually marbled or veined with several contrasting colors. These are borne on long, slender stems, and are excellent cutting, keeping well in water. Seed may be sown in the house the last of March or in the open ground in May. The plant succeeds best in deep, rich, rather light loam of medium moisture. 2 feet.

928 **GRANDIFLORA.** Choicest mixed. Extra large flowered strain. Pkt. 5 cts., 1/8 oz 20 cts.

929 **EMPEROR.** Mixed colors. New type, with one thick leading stem; flowers large and distinct in their beautiful veinings of gold. Pkt. 10 cts., 1/8 oz. 30 cts.

## SALVIA

(Scarlet Sage)

A mass of bloom from late summer until killed by frost; tender perennials, treated as an annual. Seed should be sown early indoors, or in hot bed and the plants set out when the weather has become warm.

935 **SPLENDENS GRANDIFLORA.** The well-known Scarlet Sage. 3 feet. Pkt. 10 cts., 1/8 oz. 50 cts.

936 **BONFIRE** (Clara Bedman). Compact bushy growth, blooms earlier and more profusely. Intense scarlet. 2 feet. Pkt. 10 cts., 1/8 oz. 50 cts.

937 **PATENS.** Rich, intense blue. 2 feet. Pkt. 25 cts.

938 **ZURICH.** One of the best of recent introduction; dwarf compact habit producing long, thick spikes of brilliant scarlet flowers blooming in July. Pkt. 20 cts.





## SCABIOSA (Mourning Bride)

The flowers are large and double with a great variety of colors. Of easy culture and blooms freely from July until hard frost. Hardy annual. 2½ feet.

- 945 **LARGE-FLOWEED.** Mixed Colors. Fine, large, double flowers in a wide range of colors. Pkt. 5 cts., ¼ oz. 15 cts.  
 947 **CAUCASICA.** Flowers large, pale lilac, about 3 inches in diameter, in bloom all summer. Pkt. 10 cts., ½ oz. 25 cts.  
**SCARLET RUNNER.** See Beans—Ornamental varieties.

## SCHIZANTHUS (Butterfly, or Fringe Flower)

Beautiful, dainty, half-hardy annual. Seed may be sown in the open ground, or in the house, and the plants set in the garden in May. Should be planted in a sheltered place or the plants tied to stakes, as the stems are very brittle and easily broken by strong winds. An excellent house-plant. 1 to 1½ feet.

- 948 **GRANDIFLORUS HYBRIDUS.** Very fine new varieties. Pkt. 10 cts.  
 949 **WISETONENSIS.** Containing the most beautiful shades of white, pink, rose and crimson. Excellent for pot culture. Pkt. 25 cts.

## SENSITIVE PLANT (Mimosa Pudica)

- 950 **PUDICA.** Globular heads of small pink flowers. Grown chiefly for the peculiar habit of the plant, the leaves closing and drooping at the slightest touch. Tender annual. 1½ feet. Pkt. 5 cts.

## SHAMROCK

- 950A True, small-leaved variety. Imported seed. Pkt. 10 cts., ¼ oz. 40 cts.

## SILENE (Catchfly)

Profuse-flowering plants of easy culture. Seed of the annual sorts may be sown in the open ground early in the spring or in the fall if early bloom is desired.

- 951 **ARMERIA.** Mixed (Common Catchfly). Annual; blooms from July to September. White, pink and red. 1½ feet. Pkt. 5 cts.  
 953 **PENDULA COMPACTA.** Single and Double. Mixed colors. White, rose and red. Annual. Largely used for edgings. May to August. 6 inches. Pkt. 5 cts.  
 955 **SMILAX.** A climbing plant, unsurpassed for its graceful foliage and orange-blossom fragrance of its flowers. Makes a fine pot or basket plant. Elegant for table decoration when cut. Pkt. 10 cts.

**SNAPDRAGON.** See Antirrhinum.

**SOLANUM CAPSICASTRUM.** See Jerusalem Cherry.

## STOCK

(Gilliflower)

One of the most popular annuals remarkable for its profusion of bloom, brilliancy and diversity of colors and lasting quality of its flowers. Plants from seed sown inside in March or April commence to bloom in July and those from seed sown in the open ground in about ten weeks, and continue until frost. Plants grown in rich soil and well cared for, produce 80 to 90 per cent. of double flowers.

- 957 **BEAUTY OF NICE.** Mammoth flowering. Delicate flesh pink, extra large spike. Pkt. 10 cts., ½ oz. 75 cts.  
 958 **MONT BLANC.** Purest white. Pkt. 10 cts.  
 959 **MONTE CARLO.** Canary yellow. Pkt. 10 cts.  
 961 **SUMMER NIGHT.** Rich deep blue. Pkt. 10 cts.  
 962 **CHOICEST MIXED.** Pkt. 10 cts.  
**DRESDEN PERPETUAL, or BRANCHING** (Cut-and-Come-Again). A perpetual blooming class of branching habit; double, fragrant flowers. 2 feet.  
 967 **CHOICEST MIXED** Pkt. 10 cts., 1-16 oz. 50 cts., ½ oz. 90 cts.  
**LARGE-FLOWEED DOUBLE TEN WEEKS.** A very choice strain, producing a very large per cent. of double flowers. Fine for bedding. 1½ to 2 feet.  
 970 **CHOICEST MIXED.** Pkt. 10 cts., 1-16 oz. 40 cts., ½ oz. 75 cts.  
 971 **DOUBLE TEN WEEKS.** Mixed Colors. Seeds grown in the open ground instead of in pots, therefore cheaper. A good range of colors. 1½ feet. Pkt. 5 cts., ½ oz. 25 cts., ¼ oz. 40 cts.

## STOKESIA CYANEA

(Cornflower Aster)

- 973 **BLUE.** A beautiful, hardy perennial, growing about 2 feet high and bearing from August to hard frost, beautiful centaurea-like lavender-blue flowers, among the best for cutting. Pkt. 10 cts.  
 974 **MIXED.** Containing many new colors. Pkt. 10 cts.

## SUNFLOWER HELIANTHUS

The Sunflower grows well in all sorts if fully exposed to the sun. The taller varieties make excellent background to other plants.

- 975 **CUCUMERIFOLIUS** (Miniature Sunflower). Small, singel flower, rich yellow. 4 feet. Pkt. 5 cts., ½ oz. 15 cts.  
 976 **GLOBOSUS FISTULOSUS** (Globe or Dahlia Sunflower). Flowers large, double, of a rich saffron color. 6 feet. Pkt. 5 cts., oz. 30 cts.  
 977 **RED SUNFLOWER.** The new Red Sunflower is easily grown from seed the same as all of the Helianthus family, and usually thrive in any sunny location with ordinary garden soil. Colors are not truly fixed and may produce some yellow blooms, but the larger proportion are of a fine red, tipped yellow. Pkt. 15 cts.  
 980 **NEW MINIATURE VARIETIES.** Many new varieties of the miniature type, of various shades of yellow and creamy white. Some are large, some have twisted petals and some black centres. Pkt. 10 cts., ¼ oz. 25 cts.  
 981 **PERKEO.** A distinct dwarf variety of the Miniature and growing only a foot high and blooming from the last of June until hard frost; is especially valuable for bedding. Pkt. 10 cts.  
 983 **DOUBLE MINIATURE.** Mixed. While the single flowers are more graceful, the double last longer when cut. Flowers small, double or semi-double and borne on long stems. Of various shades of yellow. 4 feet. Pkt. 10 cts.  
 984 **DOUBLE CHRYSANTHEMUM-FLOWEED.** Flowers larger than the preceding; full and double. Orange-yellow. 5 feet. Pkt. 5 cts., ½ oz. 15 cts.



Stock

- 986 **RUSSIAN MAMMOTH.** Very large. 7 to 9 feet. Pkt. 5 cts., oz. 10 cts.

- 988 **MAXIMILIANA.** Flowers clear yellow with several rows of large petals and full center; continues in bloom late in the autumn. Hardy perennial. 6 feet. Pkt. 10 cts., ½ oz. 25 cts.  
**SWEET SULTAN.** See Centaurea.

## Sweet Peas

### Grandiflora or Standard Varieties

Sweet Peas succeed best when planted very early in the spring. The soil should be at least of medium fertility and well prepared. Sow thickly in drills about 5 inches deep, but cover with but 2 inches of soil, filling the drill when plants are a few inches high. Seed may be sown in either single or double rows, the latter being preferable because more economical of space, and requiring only half as much material for support of the vines. For this purpose poultry netting is often used, but brush is better. The season of blooming will be prolonged if all flowers are cut and seed-pods not allowed to form.

All of the following varieties at uniform price. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., ¼ lb. 75 cts.

- 995 **AMERICA.** White, striped and splashed with carmine.  
 1005 **APPLE-BLOSSOM.** Crimson-pink, shading lighter, wings white tinted pink.  
 1010 **AURORA.** White, striped and flaked orange-pink, very attractive.  
 1015 **BLACK KNIGHT.** Glossy, deep maroon; large, open form.  
 1020 **BLANCHE BURPEE.** White, popular but not equal to Dorothy Eckford.  
 1025 **BLANCHE FERRY.** The popular pink and white.  
 1035 **BOLTON'S PINK.** Pink, shaded rose.  
 1036 **CAPTAIN OF THE BLUES.** Purple, wings bright blue.  
 1038 **COUNTESS OF RADNOR.** A beautiful lavender of hooded form, nearly self colored.  
 1040 **DAINTY.** Clear white, edged with rose-pink.  
 1042 **DOBBIE'S MID BLUE.** Brightest blue of all.  
 1045 **DOROTHY ECKFORD.** The largest pure white of this class.  
 1055 **DUKE OF WESTMINSTER.** Standard clear purple; wings purple, tinted violet.  
 1060 **EARLIEST OF ALL.** Pink and white.  
 1061 **EARLIEST WHITE.** Pure white, very early.  
 1075 **EMILY HENDERSON.** Pure white; large, open form, petals of more substance than other white sorts; not so graceful in form as the hooded varieties; stems very thick. Vigorous grower and blooms profusely.  
 1080 **FLORA NORTON.** Almost true sky-blue.



# EVERYBODY KNOWS ROSS' SEED GROWS SWEET PEAS—Continued

- 082 **FLORIST LAVENDER.** One of the best of this shade, long-stemmed plant, vigorous.
- 110 **JEANNIE GORDON.** Standard bright rose, wings primrose, tinted light rose.
- 120 **KATHERINE TRACY.** Flowers soft but brilliant pink; open form, the plants are vigorous, and give a profusion of flowers which continue of good size until the end of the season.
- 125 **KING EDWARD VII.** Crimson-scarlet, large; the best of this color.
- 135 **LADY GRISEL HAMILTON.** Soft lavender, tinted with mauve in standard.
- 150 **LOTTIE ECKFORD.** White, edged lavender.
- 155 **LOVELY.** Soft shell-pink, a beautiful flower.
- 161 **MIDNIGHT, or BLACKBIRD.** Indigo-blue and violet. The darkest shade in sweet peas.
- 1170 **MISS WILMOT.** Bright orange-pink, veined with deeper shade.
- 1200 **MRS. WALTER WRIGHT.** Rosy-purple, self-colored.
- 1215 **OTHELLO.** Very dark maroon; large.
- 1220 **PRIMA DONNA.** The popular clear pink.
- 1230 **PRINCE OF WALES.** Rose-crimson, self-colored.
- 1234 **QUEEN ALEXANDRA.** Intense scarlet, does not burn in sun; large.
- 1235 **QUEEN VICTORIA.** Light, primrose, self-colored; black seeded.
- 1265 **STELLA MORSE.** Buff with tint of pink; when bunched has rich cream effect.
- 1275 **THE HON. MRS. E. KENYON.** Light primrose, self-colored; the best of this shade.
- 1290 **WHITE WONDER.** Pure white; many double flowers.

## The Spencer Waved or Giant Orchid-Flowered SWEET PEAS

All at uniform price except where noted. Pkt. 10 cts., ½ oz. 25 cts., oz. 45 cts., ¼ lb. \$1.50, postpaid.

**AMERICA SPENCER.** White, covered with splashes and stripes of bright carmine.

**ASTA OHN.** Large flowers, waved and fluted in the standard with very large wavy wings, lavender, suffused or tinted with mauve; superior to any other lavender.

**AURORA SPENCER.** Enormous flowers, both wings and standard much waved or fluted; ground creamy white, beautifully flaked and mottled, rich orange-salmon.

**BARBARA.** An excellent sort for exhibition or table decoration; a large salmon-orange self and much superior to Earl Spencer, as it retains its original color.

**BLANCHE FERRY SPENCER.** Closely resembles the variety of the older type. Large, well waved and crinkled.

**BLUE PICOTTE.** Almost pure white except for a narrow edging of violet blue on the standard and wings. Flowers large and of fine form.

**CONSTANCE HINTON.** A beautiful white Spencer of enormous size. Young flowers usually tinted a trifle pink, but they soon turn pure white.

**COUNTESS SPENCER.** The original of this type. Soft rose-pink, deepening somewhat at the edges.

**DAINTY SPENCER.** White ground with beautiful picotee edge of rose pink.

**DOBBIE'S CREAM.** Rich primrose, perfect form, waved edge, usually four flowers on a stem.

**DECORATOR.** Of vigorous growth, the vines flower profusely, bearing on long stems three and frequently four beautifully waved flowers. The color is rich rose overlaid with terra-cotta, intensifying to deep bright orange at base of wings.

**DUPLEX SPENCER.** Produces uniformly large, waved flowers of true Spencer type. In color, both the standard and wings are a rich cream pink, and practically all the petals give flowers with double or triple standards. On the sprays of four blooms each (of which there is a great number) the two lower flowers are double, while sometimes three of the flowers are double. The three bloom sprays give the one or two lower flowers with twin or triple standards. Even the flowers which have only a single standard are magnificent, being all uniformly waved and crimped, both in standard and wings.

**ELFRIDA PEARSON.** The flowers are of extra large size, great substance and lasting quality when cut. They are nicely disposed on extremely long stiff stems, invariably borne in fours. The vines bloom in wonderful profusion, and are of such vigorous growth that the flowers frequently come with double standards. The color is lovely pink throughout, the buds and flowers being tinted with salmon-pink.

**ETTA DYKE.** A superior strain of "White Spencer," larger, whiter, and better frilled.

**FIERY CROSS.** This sensational novelty was exhibited in 1916 and was received with great favor by the experts, and is now offered to the public as one of the leaders. The flowers are of good size and beautifully waved, but its greatest merit is its color, a brilliant fiery-scarlet, and its well-deserved name is truly descriptive.

**FLORA NORTON SPENCER.** Bright blue, with a little deeper tint of purple than the original Flora Norton. Large, both standard and wings are wavy.

**FLORENCE NIGHTINGALE.** Best soft lavender.

**HELEN LEWIS (Orange Countess).** Standard crimson-orange, wings orange-rose.

**HERCULES.** A magnificent soft rose-pink. The standard frequently measures two and one-half inches in diameter.

**ILLUMINATOR.** A rich and charming new color, produced by a ground color of salmony-orange overlaid with bright cerise-pink, the effect being a glowing orange-scarlet; flowers uniformly large.



Flora-Norton Spencer





## SPENCER SWEET PEAS--Continued

**KING WHITE.** The grandest of all white Sweet Peas, and of the most up-to-date Spencer form. It is much the largest white Spencer—the buds are of exceptional size before opening, even the seed pods are unusually large. The stems are long and stout, and bear practically always four blossoms. King White created a sensation wherever shown.

**KING EDWARD SPENCER.** Rich crimson-scarlet, large and of fine form; the best of this color.

**KING MANOEL.** A giant-flowered maroon or deep chocolate-colored variety that is sure to please all who admire rich shades.

**LADY EVELYN EYRE.** Color a lovely shade of blush-pink on white ground, slightly deeper toward the edges, and with a slight suffusion of light salmon.

**LOVELY SPENCER.** Soft shell-pink, shading to blush and almost white at the edges; large and wavy.

**MARGARET ATLEE.** The largest and finest Sweet Peas yet introduced. It is a rosy salmon-pink on a creamy buff ground; a rich, soft color, and extremely attractive, both as individual flowers and in the bunch. The standard is large, wavy and frequently double. The wings are also large, wavy, well set. There are usually four blossoms to a stem; well poised and graceful.

**MARTHA WASHINGTON.** Most beautiful; blush-white veiled with rosy-pink deepening into a contrasting marginal zone of tyrian-rose.

**MAUD HOLMES.** An unsurpassed "Sunproof" crimson.

**NEW MARGARET MADISON.** A large, perfect Spencer, of delicate azure blue, slightly tinted with mauve. The mauve tint shows only in the newly opened blossoms and the fully expanded flowers are clear light-lavender.

**OTHELLO SPENCER.** Of immense size with large drooping wings and large wavy standard; rich maroon, very dark.

**PRIMROSE SPENCER.** Not so large as some of this class, but especially desirable because of its color, a pronounced primrose or creamy yellow.

**ROYAL PURPLE.** A new shade in Sweet Peas, a rich purple and almost a true royal purple. The same shade effect does not exist in the grandiflora type.

**SENATOR SPENCER.** The color is a varying combination of deep claret and chocolate, striped and flaked on a ground of light heliotrope. Very large.

**STIRLING STENT.** A rich, deep metallic salmon suffused with orange. A beautiful Spencer, especially in artificial light, requiring shading to show true color.

**THOMAS STEVENSON.** The flowers are of largest size and true Spencer type. The standard is an intense flaming orange, while the wings are rosy carmine, shaded orange. Very vigorous.

**VERMILLION BRILLIANT.** A brilliant scarlet Spencer of splendid form. The standard is very bold and beautifully waved. On account of its brightness this is a very telling color and should be in every collection.

**WARRIOR.** Deep chocolate, almost black, unequalled for mixing with other shades for bouquets and table decorations. The darkest Sweet Pea introduced.

**WEDGEWOOD.** This is a unique shade of lovely light blue and completely eclipses the Flora Norton Spencer. The flowers are well waved in both standard and wings and are borne almost uniformly in sprays of four upon long, stout stems. Wedgewood is a color long sought for in Sweet Peas and has been eagerly welcomed by lovers of this beautiful annual.

**WHITE SPENCER.** Pure white. Of the largest size, has beautifully poised wings and the standard is erect and wavy. Stems often 12 inches long.

Price of above: Pkt. 10 cts., ½ oz. 25 cts., oz. 45 cts., ¼ lb. \$1.50.

### EARLY FLOWERING SPENCERS

Price, each, pkt. 15 cts., oz. 75 cts.

**EARLY HEATHER BELL.** The color is a rich and pleasing mauve, but after standing in water the color becomes a beautiful mauve lavender.

**EARLY SONGSTER.** A splendid lavender, the color of "Masterpiece," and quite the best lavender. The flowers have less mauve than in our well-known variety, "Asta Ohn." They are of perfect form.

**EARLY SNOW FLAKE.** As its name indicates, this is pure white and is quite the best early flowering White Spencer. Flowers come on long stems. This variety is appreciated by all florists.

**YARRAWA.** A Sweet Pea novelty of sterling merit, coming from Australia. The flowers are waved, of large size many of them being double. Color, a soft, bright rose pink with a creamy base. One of the best for forcing under glass, and when grown out of doors blooms two weeks earlier than the Summer Spencers.

**EARLY PINK AND WHITE.** Giant pink and white.



Lovely

## SWEET PEA MIXTURES OUR BEST MIXED

**1295** This mixture we make up ourselves of the choicest large flowered varieties, including the best of the standard varieties, all of the varieties of the New Giant and Orchid-Flowered, both of the Spencer and Unwin Types and many of the unnamed Spencers. This mixture comprises all shades, but is blended in carefully studied proportions and is the most desirable and popular mixture which can be produced. Pkt. 10 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.75.

### CHOICE MIXED

**1296** Also prepared by us; a well-blended mixture, comprising many of the large-flowering varieties of the older type, and Eckford's Large-Flowering Hybrids in great variety. The mixture will compare favorably with those generally offered at a higher price, and is surpassed only by mixtures which, like our Best Mixed, contain the new orchid-flowering varieties. Pkt. 5 cts., oz. 10 cts., ¼ lb. 35 cts., lb. \$1.15.

## SPENCER VARIETIES AND SEEDLINGS MIXTURE

This is a superb mixture of Spencer or Giant Waved Flowered varieties. It contains not only the named kinds, but many of the unnamed seedlings. It must be remembered that the Spencer sorts do not come as true as the old standard kinds, but a very large percentage will be of the Spencer type with a waved flower. This is the very best mixture that you can buy and is well worth the difference in price. Postpaid, pkt. 10 cts., oz. 25 cts., ¼ lb. 90 cts.





# EVERYBODY KNOWS ROSS' SEED GROWS



## SWEET WILLIAM (*Dianthus Barbatu*s)

A splendid hardy biennial with large trusses of sweet and scented flowers produced in abundance. Seed should be sown at any time from early spring to the last of August, the late sown generally making as good plants as the early, and blooming to the full extent the following summer. 1½ feet.

- 1300 **SINGLE MIXED COLORS.** Pkt. 5 cts., ¼ oz. 15 cts.  
 1302 **HOLBORN GLORY.** A new strain of the auricular-eyed section; both the head and individual flowers are of the largest size and each of the latter shows a clear white eye; of an exceedingly wide range of colors. Pkt. 10 cts., ¼ oz. 35 cts.  
 1308 **DOUBLE. LARGEST-FLOWERED.** Choicest mixed. A greatly improved strain. Pkt. 10 cts., ¼ oz. 25 cts.  
 1309 **SCARLET BEAUTY.** A very effective, rich, deep scarlet variety. Pkt. 10 cts.  
 1310 **EVERBLOOMING HYBRID** (*Dianthus latifolius atrococcineus* fl. pl.). A variety which blooms the first season from seed. Color, intense crimson, scarlet; a really fine hardy plant of very easy culture. Pkt. 10 cts.

## THUNBERGIA

- 1315 **MIXED.** An annual vine, growing about 4 feet high, bearing medium-sized flowers, white, buff or orange, with dark eye. Largely used in hanging baskets or window boxes. Pkt. 5 cts.

## TRITOMA

- 1317 **TRITOMA** (Red-Hot Poker Plant, or Flame Flower). H. P. Magnificent, large spikes of orange-red flowers, attaining a height of 4 feet, effective in single clumps or among shrubbery. Pkt. 10 cts.

## VERBENA

Favorite annuals, thriving in nearly all soils. Useful for beds, borders, carpeting ground, and vases. Plants from seed sown in open ground in May will begin to bloom in August, and those sown inside in March will bloom from June until frost.

- 1320 **MIXED COLORS.** A good strain, all colors of old type. Pkt. 5 cts., ¼ oz. 25 cts.  
 1321 **MAMMOTH MIXED COLORS.** Comprises the best large flowering sorts of many colors. Pkt. 10 cts., ½ oz. 40 cts.  
 1322 **SCARLET DEFIANCE.** Large trusses of deep, rich scarlet. Pkt. 10 cts.  
 1323 **MAMMOTH WHITE.** Truss and florets large; fragrant. Pkt. 10 cts.  
 1324 **ITALIAN STRIPED.** Large trusses and medium-sized flowers; each distinctly striped. Pkt. 10 cts.  
 1325 **"BURBANK'S GIANT MAYFLOWER."** A selected strain from Luther Burbank, having a powerful fragrance like that of the Trailing Arbutus. The flowers are of the largest size and most beautiful colors. Pkt. 15 cts., 2 pkts. 25 cts.  
 1326 **LEMON.** An old favorite with delightfully scented foliage. It is a low-growing tender plant and may be grown in the garden in summer and in pots in winter. Pkt. 10 cts.

## VERONICA

- 1330 One of the prettiest of the spring flowering herbaceous plants, bearing pretty blue flowers on long spikes. Valuable both for the garden and for cut flowers. They should be in every garden. Hardy perennial mixed. Pkt. 10 cts.

## VIOLA CORNUTA (Tufted Pansies)

Flowers are not so large as the Pansy proper, but is very desirable, as it blooms profusely, and is more quickly and easily grown. Seed sown in April will produce blooming plants in June that will be covered with flowers for a long time, and, if planted in cool, moist soil, partly shaded, nearly all summer.

- 1335 **MIXED TUFTED PANSIES.** Finest mixture of all colors. Pkt. 10 cts., ½ oz. 30 cts., ¼ oz. 50 cts.

## WALLFLOWER

Half-hardy perennial. A universal favorite in England. Though a fine bedding plant, is not well-known in America. It is more often grown as a pot plant and for this purpose is well adapted. The flowers are very often fragrant and usually of various shades of yellow, brown and reddish brown. Seed may be sown in the open ground in the spring when warm, and, if given about 12 inches of room, will make strong, stocky plants for winter bloom.

- 1340 **SINGLE.** Mixed Colors. Pkt. 5 cts.  
 1341 **DOUBLE BRANCHING.** Mixed Colors. Pkt. 10 cts.  
 1342 **PARIS EXTRA-EARLY.** A new single-flowered strain, blooming throughout the season, from spring-sown seed. Colors, light brown, brownish-red, yellow and creamy-white. Mixed. Pkt. 10 cts., ¼ oz. 20 cts.

## Wild Cucumber Vine

- 1346 **WILD** (*Echinocystis lobata*). One of the most rapid-growing of all annual climbers and blooms early in the season and continuously until fall. Of the easiest culture, growing wild in the West from self sown seed. One of the most desirable annual climbers for quickly covering any unsightly object; growing 30 feet, and covered with small, white fragrant flowers, followed by an abundance of prickly but ornamental seed-pods, it at all times presents a striking and effective appearance. Seed may be sown either in the fall or spring. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.



Mammoth Zinnia

## ZINNIA (Youth and Old Age)

Old-time favorite annual; easily grown from seed and transplanted readily. Showy flowers in profusion all summer. Fine for bedding, borders or among shrubbery.

- 1350 **MIXED COLORS.** An improved strain, comprising all colors and many large flowers. 2 feet. Pkt. 5 cts., ¼ oz. 15 cts., oz. 50 cts.

## MAMMOTH FLOWERED ZINNIA

These grand annuals are of the Giant or Mammoth flowering type and are in every way superior to the old-fashioned "Youth and Old Age."

The plants grow from 2½ to 3 feet high and are covered with myriads of densely double flowers, measuring from 4 to 6 inches in diameter. Giant Zinnias are one of the best plants for beds, borders and cutting.

- 1351 **Mammoth Crimson.** 1352 **Mammoth White.** 1353 **Mammoth Scarlet.** 1354 **Mammoth Yellow.** Each, pkt. 10 cts., ¼ oz. 25 cts.  
 1358 **Mixed Colors.** Pkt. 10 cts., ¼ oz. 25 cts., oz. 75 cts.  
 1360 **CURLED AND CRESTED.** A pleasing variation from the regular type, the petals being twisted, curled and crested. All colors. 2½ feet. Pkt. 10 cts., ¼ oz. 25 cts.  
 1362 **ZEBRA.** Striped flowers, the colors varying on each plant. Pkt. 10 cts., ¼ oz. 25 cts.  
 1363 **LILLIPUT (Pompon).** Small, double flowers of many colors Very profuse. 1½ feet. Pkt. 10 cts., ¼ oz. 25 cts.  
 1364 **HAAGEANNA** fl. pl. (Mexican Zinnia). A distinct type with small pretty, double and semi-double flowers, which would hardly be recognized as Zinnias by those unfamiliar with the type. Of dwarf and slender growth, the plant is excellent for bedding, while the deep orange flowers are good for cutting. Pkt. 10 cts.

## WILD FLOWER GARDEN MIXTURE

- 1368 A mixture of many free-blooming annuals, which, once sown, require little care, and sown in this way, almost none. In fact, with the exceptions of thinning out some plants where they grow too thickly and removing an occasional weed, the bed often looks better let alone, is more in keeping with its name, and more like some lovely spots where wild plants grow. The possibilities of this mixture are great, the different seasons of blooming insuring constant succession of flowers from early in the season until hard frost, and in the height of bloom, some new flower nearly every day. It affords a very easy and cheap way to quickly fill large areas of any unsightly place, and the results will surprise those who never saw a wild-flower garden; not only will the bed be attractive, but also will furnish many good flowers for cutting. To insure the greatest possible variety, the bed should be quite large. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts., ¼ lb. 75 cts.





## GLADIOLUS

In diversity, beauty and magnificence, no other flower which can be so easily grown and with which success is so nearly certain, can at all times compare with the Gladiolus. The range of colorings and markings is practically unlimited, and especially since the introduction of the thousands of new seedlings, may the claim be made that the varieties are numberless. As a cut flower for vases, within the scope of the amateur no other flowers equal the Gladiolus in striking and effective appearance. And in lasting quality but few, if any, compare. If the spikes are cut when only the lower flowers are open they will last for a week, the upper buds opening when kept in fresh water as well or better than when left to open outdoors.

**Culture**—Plant in full exposure to the sun. A light, moist soil one year from sod is the most desirable, but the Gladiolus thrives well in nearly all soils, the exception being a stiff, clayey one. While soil should be well enriched, avoid using fresh manure; use only that which is well rotted. Much the better way is to use land that was well manured the previous year, using none at the time of planting, but giving afterward one or two applications of commercial fertilizer. If possible avoid planting in the same place for three years.

If space is limited, bulbs may be planted in double rows, four inches between the rows and two inches apart in the row; they are, however, more generally planted in single rows about one foot apart, two, three or four inches deep, according to size. The first planting may be made by the middle of April, and successive ones till the first of June, but for the late planting bulbs should be reserved.

**AMERICA.** One of the finest Gladiolus known. The plant is of vigorous growth, with luxuriant foliage and producing spikes two to three feet long.

The flowers are very large and of an exquisite shade of soft flesh-pink. Each 8 cts., doz. 90 cts.

**ATTRACTION.** Deep, dark rich crimson, with a very conspicuous large pure white center and throat. At once a most beautiful and attractive sort. Each 8 cts., doz. 90 cts.

**AUGUSTA.** Flowers are of perfect paper-white with a slight pink shade on lower half of the petal. The spike is set solid and perfect with the flowers from top to bottom. Each 8 cts., doz. 90 cts.

**BARON HULOT.** Good sized flower, well arranged on straight spikes; color dark violet bordering on blue. Each 8 cts., doz. 90 cts.

**EUROPA.** The finest pure white Gladiolus. This new variety is of perfect form, produced on strong, stiff, tall spikes, usually bearing from 20 to 25 pure white blooms. The flowers open very rapidly and it is not uncommon to have from



Peace

ten to twelve of these open at the same time; the formation is very close and compact, making a perfect spike from the time when the first bud opens until the last. Each 15 cts., doz. \$1.50.

**EMPRESS OF INDIA.** Rich, velvety maroon with white blotch in the throat; the darkest Gladiolus. A very handsome flower. Each 8 cts., doz. 90 cts.

**GOLDEN WEST.** One of the best exhibition varieties on account of the variety of markings, the color being a clear orange scarlet, the lower petals striped and blotched with golden yellow faintly suffused with violet shadings. The individual flowers are of large size and seem to stand out boldly, making it very noticeable among any collection. Each 8 cts., doz. 90 cts.

**GLORY OF HOLLAND.** Very fine, white, tinted rose. Each 10 cts., doz. \$1.00.

**HALLEY.** Delicate salmon-pink predominates, with a slight rosy tinge, lower petals have a creamy blotch, with a bright red stripe in center. Each 8 cts., doz. 90 cts.

**KUNDERDI GLORY.** This is a very distinct type, each petal being beautifully ruffled and fluted, a feature especially noticeable in orchids and which gives to the Glory a refined and delicate beauty quite beyond the most beautiful of the best of the older types. The broadly expanded flowers are borne in pairs, all facing on way, on straight, strong stalks fully 3½ feet in height. From three to six, and sometimes eight flowers are open at one time. The color is delicate cream-pink with a most attractive crimson stripe in the center of the lower petals. Each 10 cts., doz. \$1.00.



Glory of Holland





# EVERYBODY KNOWS ROSS' SEED GROWS



**LOVELINESS.** Rich creamy white suffused with soft rose pink; lower petals pale yellow, lines of carmine. One of the finest. Each 12 cts., doz. \$1.25.

**MRS. DR. NORTON.** Very large and well open flowers, well set on a tall and graceful spike, four to eight flowers in bloom at one time. Color white, the edges suffused with soft La France pink. The three lower petals have a blotch of sulphur yellow, stained at the base with fine specks of Tyrian pink. Strong and vigorous grower, and very free flowering. Each \$1.00.

**MRS. O. W. HALLADAY.** Delicate soft silky pink with creamy blotch. One of the finest florist varieties. Each 50 cts., doz. \$5.00.

**All Gladiolus sent postpaid  
at prices quoted**

**MRS. FRANK PENDLETON.** One of the most exquisitely colored and formed Gladiolus in our entire list. In addition, the size of bloom is not exceeded by any other. The color is a delicately flushed salmon-pink, the color extending in the reverse side of the petal as well as in the center. The blooms are wide open and are arranged individually on the very slender but wiry stems. Each flower is doubly enhanced by a rich maroon blotch on the three lower petals. Each 10 cts., doz. \$1.00.

**MRS. FRANCIS KING.** A new variety which excited great comment and admiration, both for size of flower and beauty; the color of the flower is light scarlet; the flowers are very large, usually measuring from 3½ to 4 inches in diameter. Each 8 cts., doz. 90 cts.

**MYRTLE.** Awarded silver medal by the Massachusetts Horticultural Society. Delicate rose pink. One of the most beautiful soft pink colors of recent introduction. Flower extra size and fine form. Each 20 cts., doz. \$2.00.

**NIAGARA.** In type the variety resembles "America," but the flowers appear to be somewhat larger, measuring 4½ inches across. In color the flowers are a delightful cream shade with the two lower petals or segments blending to canary yellow. The third is splashed with carmine, and the lower ends of the outside petals are also blushed with carmine. Destined to lead the cream colored varieties. Each 10 cts., doz. \$1.00.

**PANAMA.** A new seedling of "America," which resembles the parent variety in every way except that it is a much deeper pink. A grand variety which evokes words of praise wherever exhibited. Awarded First Class Certificate by Newport Hort. Society, September 16th, 1911. Spike very long with flowers large and well arranged. Each 10 cts., doz. \$1.00.

**PEACE.** The flowers are beautiful white, the inside of the petals feathered pale lilac; it is not an early bloomer, but if planted with other varieties will flower about the time they are finished. Each 10 cts., doz. \$1.00.

**PRINCEPS.** Of immense size, dazzling scarlet with white blotch on lower petals. Spike 3½ to 4 feet high, stout and always straight. Each 10 cts., doz. \$1.00, 100 \$7.00.

**ROCHESTER WHITE.** Pure white with a slight tinge of lemon-yellow on lower segment, compact bloom and when well grown is unsurpassed by any other white. Each 8 cts., Doz. 90 cts.

**ROUGE TORCH.** Creamy white, with red tongue on interior of petals. Each 15 cts., doz. \$1.50.

**SCHWABEN.** A variety of extreme vigor, many of the bulbs producing two or three flowering stalks which very often produce side branches besides. The stalks produce about 20 very large flowers, 6 to 8 usually open at one time. The color is the best of clear canary yellow when opening. The center of the flower is a deep golden yellow with brownish carmine blotches. The foliage is very distinct, being broad, strong and of a rich green color. Certificate of merit in Paris, 1910. Each 15 cts., doz. \$1.50.

**YELLOW HAMMER.** A valuable addition to our list of yellows, a strong and vigorous grower, tall, straight spikes and large, beautiful, yellow flowers. Each 75 cts.

America

## OUR WORCESTER MIXTURE

Better than ever.

Our Worcester Mixture of Cladioli becomes more and more popular each year and we have decided this season to make it better than ever. We have been growing named varieties for a number of years, some of these are the old standard sorts and some are varieties recently introduced. Through digging and sorting, a few of these have become slightly mixed and we shall use the entire lot in making our mixtures for 1921.

Don't miss this opportunity, although we do not guarantee that you will not get duplicates; we know that you will get an exceptionally fine assortment in this mixture. Doz. 50 cts., 100 \$3.75.

## OUR CHOICE MIXTURE

We are making this just as good as we can for the price. It does not contain all the varieties which are included in the Worcester Mixture, but it has been our purpose to make this better each year, and we know that this season it will be the best mixture that can be purchased for the price. Doz. 40 cts., 100 \$3.00.



Kunderdi Glory





## Decorative Dahlias

All Dahlias sent postpaid at prices quoted.

This class includes all large, loose-flowering varieties which do not properly belong to the Cactus class. They are of very free-blooming habit and flowers are usually of the largest size. Decorative Dahlias are large, flat, and full to the center; petals quite irregularly situated, long, broad, flat, and nearly straight.

**JACK ROSE.** Brilliant crimson-red, similar in shade to the well-known "Jack" rose. One of the best for cutting. Each 25 cts., doz. \$2.50.

**JEANNE CHARMET.** A pleasing shade of violet-rose on a lighter ground. A splendid flower for cutting. Each 20 cts., doz. \$2.00.

**LE GRAND MANITOU.** Large decorative variety; white, more or less striped with violet red. Each 35 cts., doz. \$3.50.

**LYNDHURST.** Fiery scarlet, very free bloomer. Each 15 cts., doz. \$1.50.

**MINOS.** One of the finest Dahlias to date. The flowers are large, and exceedingly beautiful, borne on long, graceful, wiry stems. The color is intense velvety maroon, almost black. An ideal cut-flower variety. Fine for all uses. Each 20 cts., doz. \$2.00.

**MME. VAN DEN DAELE.** A grand Dahlia of highest Decorative type. Flowers large, of extra fine form, and produced upon exceptionally good stems, well above the foliage. As a cut-flower variety it is unsurpassed. The color, white, deeply edged live silvery-pink. A Dahlia which bears our highest recommendations. Each 25 cts., doz. \$2.50.

**MRS. WINTERS.** Pure white, very large. Each 25 cts., doz. \$2.50.

**OBAN.** Rosy-lavender, suffused silvery-fawn. A fine large flower and plant blooms profusely. Each 20 cts., doz. \$1.50.

**SOUVENIR DE GUSTAVE DOUZON.** This variety is a good comparison to the "Sunflower." It is the largest Dahlia in existence. The color is a pleasing shade of orange-red. The flowers are full to the center, and often measure 9 inches and over in diameter, and they can be forced to measure over 12 inches. The plant is a very tall, vigorous grower, with heavy, dark, glossy green foliage, and a remarkable constitution. Very long stems, of pleasing, stiff, upright type. "Souv. de Gustave Douzon should be in every garden. Each 20 cts., doz. \$2.00.

**W. W. RAWSON.** The popularity which this novelty has acquired in the

short time it has been on the market, speaks for itself for the superior feature of this flower.

The petals towards the center are quilled similar to the "Grand Duke Alexis"; toward the outer part they are more opened and flat. The color is pure white, overlaid with amethyst-blue. This wonderful combination gives it the appearance of a delicate lavender. The flowers measure from 7 to 9 inches in diameter. See illustration. Each 35 cts., doz. \$3.50.

**WM. MILLER.** Very brilliant purple. This is a fine variety of the Decorative type. Each 15 cts., doz. \$1.50.

**YELLOW COLOSSE.** An ideal Dahlia that appeals to everyone on account of its distinct color, gigantic size and beautiful appearance. This magnificent variety is the best exhibition yellow in existence, being rich, refined and delicate. Large, showy flowers of pure primrose-yellow are produced very freely on long, graceful stems. Its golden cup-shaped petals are daintily arranged, completing this beautiful, perfect flower. Each 25 cts., doz. \$2.50.



## POMPON OR BOUQUET DAHLIAS

15 cts. each, \$1.50 per doz.

Small-flowered varieties; the best of all for cutting, blooming more freely and usually having extra-long stems. The flowers are of the same form as the Show Dahlia.

**AMBER QUEEN.** Rich, clear amber, shaded apricot, extra free-flowering; one of the very best.

**ARIEL.** Deep orange buff, free blooming.

**DARKEST OF ALL.** Nearly black, fine form, free.

**ELFIN.** Beautiful primrose yellow.

**FAIRY QUEEN.** Sulphur-edged pink, exceedingly free-blooming.

**FASCINATION.** Pink and lavender, occasionally blotched white.

**SNOW CLAD.** Small white. Free.

**SAN TOY.** White, very heavily tipped carmine.

**SUNBEAM.** Crimson-scarlet, extra fine, one of the best.

**ZOE.** Yellow, tipped white. Sometimes blossoms come all yellow.

## MIXED DAHLIAS

Postpaid, \$1.25 per doz.; by express, \$1.10 per doz.; \$7.50 per 100.

These include some of our best varieties, those of which labels have been lost, and at times, varieties of which we have a surplus. While all classes are usually included, we give no guarantee that any lot sent out will include all, nor should it be understood that the customer is privileged to order those of any one class. We shall, however, send a good assortment of colors, and are sure the mixture will be found very satisfactory.



## PEONY-FLOWERED DAHLIAS

Never before has a new type of flower been received with so much popular acclaim as has been accorded the Peony-flowered Dahlia. This new type was originated a few years ago in Holland and is today the Dahlia of the future because of its grace and beauty, remarkable freedom to flower and length of stems, all of which combine to make it an ideal garden variety.

**CAECILIA.** Large creamy-white; or undoubtedly pale lemon-yellow would describe it better. Each 35 cts., doz. \$3.50.

**DR. PEARY.** Dark velvety mahogany. The darkest of all. Award of merit. Each 35 cts., doz. \$3.50.

**GERMANIA.** Wine color, dark velvety-crimson, shaded with yellow; long, straight stems; height 4 feet. Each 25 cts., doz. \$2.50.

**JOHN GREEN.** The coloring is exceptionally attractive and intensely brilliant, the center being a clear golden yellow, which quickly changes to fiery scarlet. Each 40 cts., doz. \$4.00.

**LA RIANTE.** The finest sort for mass effect or hedges; plants grow 3½ feet high and their flowers are borne on enormously long stems, in clusters from 2 to 4, far away from the foliage; color a deep pink. Each 25 cts., doz. \$2.50.

**P. W. JANSEN.** Rosy-salmon with a shade of yellow; an elegant flower, borne on stout erect stems never less than 2 feet in length; a rich and pleasing shade. Each 25 cts., doz. \$2.50.

**QUEEN EMMA.** Soft lavender-pink; of refined form and good keeper. Each 25 cts., doz. \$2.50.

**QUEEN WILHELMINA.** The most satisfactory pure white flower; the petals are elegantly twisted and are of glistening white; the plant is extremely free blooming and makes a splendid companion for "La Riente" as a hedge plant. Each 25 cts., doz. \$2.50.

**YELLOW KING.** (New introduction.) Rich clear yellow color, producing large elegant flowers on long, stiff stalks. The general report is, the finest Peony-flowered Dahlia ever shown. 5 ft. Each 60 cts., doz. \$7.00.

## CACTUS DAHLIAS, CHOICE STANDARD VARIETIES

This class is of comparatively recent introduction, and is entirely distinct from any other class. The flowers are loosely and artistically formed, and very irregular, resembling the Chrysanthemums. Petals long, twisted, and terminating in a point. Some varieties possess nearly straight petals, others are gracefully incurved.

**ALIGHT.** Rich deep orange-scarlet, very large, free. Each 25 cts., doz. \$2.50.

**BORNEMANN'S LIEBLING.** Delicate soft rose-pink. Each 25 cts., doz. \$2.50.

**CLARA G. STEDWICK.** Clear, bright salmon, shaded yellow at base of petals. Large flowers, with long, slim, twisted petals. Free-flowering. Each 25 cts., doz. \$2.50.

**COUNTESS OF LONSDALE.** Deep salmon-red. One of the best. Very free. Should be in every garden. Each 25 cts., doz. \$2.50.

**CREPUSCULE.** A gigantic flower, pale orange-yellow at center, exquisitely deepening to beautiful deep amber buff, at outer petals. This variety has won many first prizes as an exhibition flower. A beautifully formed, refined flower, which blossoms early, and produces its flowers in remarkable quantities. Each 25 cts., doz. \$2.50.

**EARL OF PEMBROKE.** Bright plum color. Large, bold flower. Each 15 cts., doz. \$1.50.

**EUREKA.** This variety has all the good qualities of the Dahlia, being properly named. Color, very deep purple. Petals long, straight and tightly quilled. Each 25 cts.

**F. H. CHAPMAN.** A gigantic reddish-orange Cactus Dahlia of exceptionally fine form. The petals are exceedingly long, narrow and tightly quilled, making a monstrous flower. An ideal Dahlia, which produces its gigantic wonders in great abundance. The plants have a pleasing, upright style of growth. Each 25 cts., doz. \$2.50.

**FLORADORA.** Wine crimson. Flowers produced with profusion, upon good stems. Moderately incurved. Each 25 cts., doz. \$2.50.

**FORBES ROBERTSON.** Beautiful reddish-orange. A very satisfactory variety, flowers having long, straight, star-shaped petals, and in addition to the long petals common to all Cactus, there is a profusion of smaller narrow, threadlike petals, or secondary florets, which intermingle with the main florets, making it one of the most novel. Each 25 cts., doz. \$2.50.

**FRED COBOLD.** Bright crimson. One of the best. Large beautifully formed flowers. Very free. Moderately incurved. Each 25 cts., doz. \$2.50.

**GENERAL BULLER.** A rich, velvety crimson-maroon, tipped white. Occasionally a solid crimson flower on same stalk. One of the most attractive "Fancy Cactus" varieties. Each 15 cts., doz. \$1.50.

**J. H. JACKSON.** The finest black Cactus Dahlia in existence. An exceptionally satisfactory all-round Dahlia; one of the most prominent for garden decoration, superb as a cut-flower variety, and equally good as an exhibition flower. In color, a perfectly gorgeous, deep, velvety blackish-maroon. Gigantic in size. Every Dahlia-lover should grow this variety. Each 20 cts., doz. \$2.00.

**KALIF.** A monster Cactus of perfect form. Color is a rich, pure scarlet. The large flowers are borne on long, stiff stems, and are held erect. A most satisfactory variety. 5 ft. Each 50 cts., doz. \$5.00.

**KING EDWARD VII.** Brilliant cherry-red. A beautifully shaped flower, possessing very long, straight, star-shaped petals. Each 25 cts., doz. \$2.50.

**KRIEMHILDE.** The Queen of the Cactus Dahlias; flesh delicate pink, shading to white in the center; very late flowering. Each 20 cts., doz. \$2.00.

**MRS. DE LUCA.** Golden yellow, tipped with orange. A most effective blending of colors, seen only in the very rare types. The plants are tall, sturdy, of exceptionally good habit, and produce their flowers in great quantities, upon very long, straight stems. Very early flowering. Each 20 cts., doz. \$2.00.

**PRINCE OF ORANGE.** One of the most attractive varieties. A rich shade of old gold at the outer-petals with a bright yellow center; very showy. Each 20 cts., doz. \$2.00.

**STERN.** Bright primrose-yellow. The flowers are large, petals long and pointed. One of the most satisfactory varieties. Each 20 cts., doz. \$2.00.

**T. A. HAVEMEYER.** A distinct yellow shade at the base, deepening to bronze. The greater portion of the flower being deep red, with a decidedly lighter tinge at points. Each 25 cts., doz. \$2.50.

## SHOW AND FANCY DAHLIAS

Show Dahlias—These are large, spherical, regular, compact and full

All Dahlias are sent postpaid at prices quoted. If desired by express, 10 cts. may be deducted from dozen prices.



Peony Flowered Dahlia.

to the center. The flowers are either solid, edged, tipped or shaded darker.

**Fancy Dahlias**—In form and habit identical with the Show Dahlias, but different in arrangement of colors. The flowers are tipped or edged lighter than the ground color, or splashed, striped, mottled and variegated, in every conceivable manner. They often throw a solid flower, on the same plant.

**A. D. LIVONI.** Beautiful soft pink. Well formed flowers with long stems. Very desirable for cutting. A very reliable old standard variety, grown by most every dahlia-lover. Perfectly round, ball shaped flowers, each petal being very tightly quilled, and arranged in exact irregularity. Free flowering. Each 20 cts., doz. \$2.00.

**ACQUISITION.** An exquisite shade of deep lilac. Very large with cup-like petals. Especially good for cut-flower purposes. Each 20 cts., doz. \$2.00.

**ARABELLA.** Pale lemon, shading to primrose at the tips, the whole being daintily overlaid with pink. Each 20 cts., doz. \$2.00.

**DOROTHY PEACOCK.** Beautiful clear live pink, blending to soft shell pink, good florist's Dahlia. Each 25 cts., doz. \$2.50.

**ETHEL MAULE.** Pure glistening white, center petals faintly tipped lavender; one of the finest. Each 25 cts., doz. \$2.50.

**GLADIATEUR.** Clear violet shaded blue; a splendid new exhibition variety. Each 25 cts., doz. \$2.50.

**GRAND DUCHESS MARIE.** (New.) Rich buff overlaid orange; reverse of petals slightly edged pink. Each 25 cts., doz. \$2.50.

**GOLDEN AGE.** Sulphur yellow. Each 20 cts., doz. \$2.00.

**IMPERIAL.** Deep purplish-maroon, one of the best. Each 25 cts., doz. \$2.50.

**LUCY FAWCETT.** Pale yellow, striped deep pink, or light magenta. One of the best of this set. Very large and free. Each 20 cts., doz. \$2.00.

**METEOR.** Ruby red, large. Each 20 cts., doz. \$2.00.

**MERLIN.** A beautiful orange-scarlet. One of the very finest dahlias ever offered. Free-flowering and good for cut-flower purposes. Each 20 cts., doz. \$2.00.

**ROBERT BROOMFIELD.** Pure white. Tall grower. Each 20 cts., doz. \$2.00.

**STRADELLA.** Beautiful deep, purple-crimson. Exceptionally free flowering. Stems long and wiry. One of the finest to date. Each 20 cts., doz. \$2.00.

**STORM KING.** The most reliable White Show Dahlia to our knowledge; pure white, flowers produced freely upon long stems, well above the foliage.

**WM. DODDS.** Very large clear yellow. Each 35 cts., doz. \$3.50.



# Best Quality Cannas

Good strong plants grown in pots, both bronzed and green-leaved varieties, our selection, sent by express only—Price, Each 25 cts., Doz. \$2.75.



Dormant roots of the varieties listed below until May 1st only.—Each 20 cts.; 3 for 50 cts.; Doz. \$1.75, postpaid.

**ALPHONSE BOUVIER.** Brilliant crimson, deeper when fully open. Green foliage. 6 feet.

**ALSACE.** Delicate, sulphur-yellow, changing soon to creamy-white. Green foliage. 4½ feet.

**BRANDYWINE.** Foliage luxuriant and of the darkest hue. Flowers large, intense, wine-red, beautifully mottled with deep crimson; two or three petals sometimes narrowly edged with bright gold. 4 to 5 feet high.

**CHAS. HENDERSON.** Deep but brilliant crimson, yellow flame at throat. A standard bedding variety. Green foliage. 4 feet high.

**DAVID HARUM.** A very fine, brilliant vermillion. Has bronze foliage and is very free flowering. One of the finest bronze varieties for bedding. 3½ feet.

**FLORENCE VAUGHAN.** Yellow, spotted with red. One of the best. Green foliage. 4 feet high.

**ITALIA.** The coloring is gorgeous in the extreme. Rich golden-yellow with patches of brilliant reddish-crimson and irregular spots on upper petals. Green foliage. 6 feet high.

**KING HUMBERT.** Truly a king among the cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad, deep bronze foliage. It grows 4 feet high and is splendid as a center, edged with a dwarf yellow canna.

**MADAME CROZY.** A very popular variety. Crimson-scarlet, bordered with yellow. Green foliage, broad and massive. Often blooms when a foot high. 4 feet high.

**MUSAFOLIA.** This is one of the finest foliaged cannas, with enormous musa-like leaves, of a dark green, bronze tinged color, the edges of the leaves beautifully banded with bronze-purple.

**YELLOW KING HUMBERT.** A sport of that most popular of all Cannas, King Humbert, producing larger flowers of a beautiful shade of yellow, lightly spotted red, with green foliage; five and six clusters of flowers at a time.

**WYOMING.** Might be called King of the Giants, for it is one of the most majestic, with the double attraction of having a luxuriant growth of rich purple foliage. Above this are borne great plumes of massive orange-colored blossoms, true orchid-shaped with large rounded petals.

**CALADIUM ESCULENTUM, ELEPHANT'S EAR**

A very large-leaved tropical plant of rapid growth. In warm, rich, moist soil, large bulbs will send up several stalks about 5 feet high, with leaves 2½ to 3 feet long and about 20 inches wide. Very ornamental; planted either single or in groups.

**MAMMOTH BULBS.** Each 30 cts., doz. \$3.25.

**LARGE BULBS.** Each 25 cts., doz. \$2.50.

Mailing Weight—Each, 1 pound; Doz., Large, 10 pounds; Doz. Mammoth, 14 pounds.

## CINNAMON VINE

A beautiful hardy climber of extremely rapid growth, growing the first season from 15 to 30 feet and, when the root becomes fully established, to a much greater length. The leaves are green, with tinge of bronze, and are very attractive. The flowers are white, borne in clusters, and of no great beauty, but of a delightful cinnamon-like fragrance. The vine dies at the end of the season, but the root is hardy, living for years and increasing in size and vigor each season. Postpaid, extra-large roots, each 10 cts., 3 for 25 cts., doz. 90 cts.

## MADERIA VINE

A rapid-growing climber with beautiful, thick, glossy wax-like leaves and bearing profusely in graceful feathery racemes, white flowers which have a fragrance resembling mignonette. Plant when ground becomes warm. Store tubers in a cold, dry place during winter. Postpaid, each 10 cts., doz. 90 cts.

## TUBEROSE

Bulbs may be started in the house for early flowers, or they may be planted in the open border, but not earlier than June in this latitude.

**EXCELSIOR DWARF PEARL.** Improved strain; plant of dwarf habit, blooms earlier and flowers are more double than old strain. Extra large bulbs, postpaid, 15 cts. each, 4 for 50 cts., doz. \$1.40.

## MONTBRETIA

The Montbretias are very pretty tuberous-rooted flowering plants, bearing showy spikes of blossom during August. Very useful for cutting. They are easily grown in a sunny open border, or indoors in pots. When established in borders a wealth of spikes may be expected.

If by parcel post, add postage at zone rates; weight 3 lbs. per 100. Dozens mailed free.

**CROCOSMIAEFLOREA.** Scarlet and orange shaded. Doz. 45 cts., 100 \$3.50.

**MIXED.** Containing a fine variety of colors. Doz. 40 cts., 100 \$3.00.





# EVERYBODY KNOWS ROSS' SEED GROWS



## Fertilizers and Materials

### TENNESEE ROCK PHOSPHATE

#### ANALYSIS

Phosphoric Acid 27%. Bone Phosphate of Lime 65%.

This is a new thing with us, being the regular Rock Phosphate, ground very fine. You will notice that it very high in Phosphoric Acid, 27%. This differs from the Acid Phosphate in the fact that it has not been treated with Sulphuric Acid, the Acid Phosphate of course being treated, makes the Phosphoric Acid all available, while some claim that the above Rock Phosphate is not available. Experiments have shown that it must be, as such good reports have come back from the use of it. The manufacturers claim that it is as readily soluble in the ground as Ground Bone, Slag or Ground Limestone. Limestone is not soluble in water, but is readily soluble in the soil.

The very fineness of this makes it available. Ninety per cent will pass through a sieve 10,000 meshes to the sq. inch and 80% through a 40,000 mesh. It is used at the rate of one ton to the acre, and an application of this sort will last three years, the manufacturers claiming that the first year 1-3 is soluble, and so on. It makes the most wonderful absorbant for the stable, and does not free the Ammonia like Ground Limestone, and turns all the moisture and water in the stables into available manure. It is one of the best combinations to use with any barn-yard manure.

It is put up in 80 lb. valve bags, very easy to handle, and 25 bags to the ton. Price is \$30.00 per ton, and \$1.40 per bag of 80 lbs.

### Ross Bros. Co.'s High Grade Potato and Vegetable Fertilizer

This is a strictly high-grade potato and vegetable fertilizer, to be used without the aid of stable manure, for potatoes, vegetables and roots of all kinds. It pays to use a liberal amount of fertilizer on any crop, especially potatoes. They should be planted on new land or land that has only been cultivated one year from sod.

GUARANTEED ANALYSIS—Per Cent.		Per Cent.
Nitrogen .....	2.88	Avail. Phos. Acid..... 8.00
Equiv. in Ammonia.....	3.50	Insol. Phos. Acid..... .50
Sol. Phos. Acid.....	6.00	Total Phos. Acid..... 10.50
Rev. Phos. Acid.....	2.00	Potash (K20) ..... 3.00

For all root-crops, such as potatoes, turnips, beets and others requiring potash. Prices: Ton \$69.00, 100 lbs. \$3.75.

### Ross Bros. Co.'s Special Potato and Vegetable Fertilizer

Same grade of goods as our High Grade Potato and Vegetable Fertilizer, only containing 1% Potash instead of 3% Potash. Price being very much lower on account of the high price of Potash. This is a good Potato and Vegetable Fertilizer for the Home Garden. Prices: Ton \$62.00, 100 lbs. \$3.50.

### Ross Bros. Co.'s Corn, Grass and Grain Fertilizer

A high grade fertilizer, especially recommended for corn, or seedling down to grass and grain. Apply one-third to one-half broadcast which should be thoroughly harrowed in, the balance in the hill at the time of planting. Corn and grass will stand much higher fertilizing than grain.

GUARANTEED ANALYSIS—Per Cent.		Per Cent.
Nitrogen .....	2.88	Avail. Phos. Acid..... 8.00
Equiv. in Ammonia.....	3.50	Insol. Phos. Acid..... .50
Sol. Phos. Acid.....	6.00	Total Phos. Acid..... 10.50
Rev. Phos. Acid.....	2.00	Potash (K20) ..... 1.00
Prices Ton \$62.00, 100 lbs. \$3.50.		

### Ross Bros. Co.'s 4-10-0 Special

A fertilizer designed to be used in connection with stable manure, also a popular brand with market gardeners who usually top-dress heavy with stable manure. This is used for growing all market garden crops, such as Peas, Beans, Spinach, etc.

Prices: Ton \$65.00, 100 lbs. \$3.50.

### Ross Bros. Co.'s Home Garden Fertilizer

A good, cheap fertilizer, but should be used in connection with stable manure when possible for all kinds of vegetables or for the kitchen garden, but if the land is not in good condition or stable manure cannot be had, use the high grade Potato and Vegetable or sheep manure.

GUARANTEED ANALYSIS—Per Cent.		Per Cent.
Nitrogen .....	1.65	Avail. Phos. Acid..... 8.00
Equiv. in Ammonia.....	2.00	Insol. Phos. Acid..... .50
Sol. Phos. Acid.....	6.00	Total Phos. Acid..... 8.50
Rev. Phos. Acid.....	2.00	

Prices: Ton \$48.50, 100 lbs. \$2.75, 50 lbs. \$1.50, 25 lbs. 90 cts.

**AGRICULTURAL LIME.** The agricultural colleges have been experimenting for some time to ascertain the influence lime has upon the soil when used with different crops, and the results show beyond all doubt that a large majority of our common vegetables need lime. This is especially true in regard to asparagus, beets, spinach, squash, lettuce, and onions. Lime should be applied at the rate of one ton per acre. Price: Per ton \$10.00.

**PLAIN SUPERPHOSPHATE.** 16 per cent. soluble and available phosphoric acid. In 200-lb. bags. Prices: Per ton \$40.00, 200-lb. bag \$4.25.

### NITRATE OF SODA

Imported from Chile. It usually contains 96 per cent. nitrate of soda and above 19 per cent. ammonia. It should be used with caution for top dressing and pasture, also for forcing garden crops, such as Spinach, Tomatoes, etc.

Price: 5 lbs. 50 cts., 25 lbs. \$1.50, 100 lbs. \$4.50.

**FINE GROUND BONE.** 3 to 4 per cent. ammonia, 22.80 to 25.23 per cent. phosphoric acid. In 200-lb. bags. 100 lbs. \$3.25, ton \$55.00.

**TOBACCO DUST.** Fine, ground; for greenhouse use this is one of the best articles for dusting all kinds of plants that are affected with insects of any kind. 1b. 25 cts., per bag 100 lbs. \$3.50.

**FUMIGATING TOBACCO.** Price: 100 lbs. \$4.50.

**DRY GROUND FISH.** 9 to 10 per cent. ammonia, 25 to 30 per cent. bone phosphate 100 lbs. \$5.00, ton \$95.00.

**CANADA HARDWOOD ASHES.** Analysis: Potash, 3 to 5 per cent.; Phos. Acid, 1 to 3 per cent.; Lime, 30 to 40 per cent.; Moisture, 12 per cent. We handle these in large quantities and can quote carload price delivered at any freight station in New England. f. o. b. Worcester, 100 lbs. \$1.85. Per ton \$30.00.

Car lots in bulk delivered at all through points, \$22.50 ton.

### TOBACCO STEMS

Used for fumigating, also used by some as a top dressing for fertilizer. We can furnish these in any quantity, even to carload lots.

Price: 5 lbs. 50 cts., 100 lbs. \$3.50.





## LAWN FERTILIZER

# We Can Furnish Anything to Make the Grass Green on Your Lawn

**IF YOU WANT A RICH, GREEN, VELVETY LAWN YOU MUST FEED IT**

**Our Worcester Special Odorless Lawn Fertilizer is of Special Interest to  
Owners or Those in Charge of Private Estates, Golf Links, Parks, Etc.**

### WORCESTER SPECIAL LAWN FERTILIZER

If you want a fertilizer that starts the grass early in the Spring and keep it green throughout the entire season, use Worcester Special Lawn Fertilizer. This fertilizer is not only a complete high grade fertilizer, but is an insecticide as well. We mix with every ton a quantity of Tobacco Dust, which in itself is not only a fertilizer, but is an insecticide and will drive the grubs and other injurious insects from your lawn. Your lawn will have that deep, rich velvety look throughout the entire season if you use this fertilizer.

A Rich, Velvety Lawn is more than a piece of grass. Everyone likes a lawn that is green early in the Spring and remains so until the snow covers it in the fall. This requires a good fertilizer, one that lasts throughout the season. After your lawn has been properly graded, some complete fertilizer is absolutely necessary.

The beauty of any lawn depends largely upon two things. Good Seed and Fertilizer. The old practice of top-dressing lawns with a stable manure is objectionable on account of unsightliness and disagreeable odors. Such manure usually contains large quantities of Weed Seed, which will ruin the best lawn that was ever made.

Price 25 lbs. \$1.10, 50 lbs. \$2.00, 100 lbs. \$3.65, ton \$67.50.

### PURE FINE GROUND FERTILIZER BONE

This bone is ground very fine and is an excellent fertilizer for almost any purpose. It is especially adapted for making new lawns, for trees, shrubs and for composting for the greenhouse.

Price: 5 lbs. 25 cts., 25 lbs. \$1.00, 100 lbs., \$3.25, 2000 lbs. \$55.00.

### GROZ-IT BRAND PULVERIZED SHEEP MANURE

Ordinary manure, which is so necessary to plant life, has many objectionable features, when used close to the dwelling. It is unsightly, has a disagreeable odor, draws flies and insects, likewise it is too bulky to be used to the best advantage.

In its place, we offer you a highly concentrated pulverized, natural animal manure, packed in sacks, light, dry, odorless, free from seeds and all foreign matter, with a plant food value many times that of ordinary manure.

Is excellent for Golf Greens, for flower beds and especially for fertilizing trees of all kinds, for composting for window boxes and also good for the home garden.

We sold several hundred tons of this material this past season to some of our largest market gardeners and to manufacturers for shop gardens and it gave perfect satisfaction. It is fast taking the place of commercial fertilizer, as it is a safe and sure fertilizer for all crops.

Will not burn your plants, no matter in what quantities you use it, but is highly concentrated and safe for anyone to use. Can be used safely at the rate of 50 lbs. per 1000 sq. ft., or as a general fertilizer for all crops from 1000 to 2000 lbs. per acre. It makes the richest and safest liquid manure, using 1 lb. to 5 gallons of water.

### GUARANTEED ANALYSIS

Nitrogen .....	1.84	Total Phosphoric Acid.....	1.25
Ammonia .....	2.25	Available Phosphoric Acid.....	.75
Water Soluble Potash K2O.....	3.00		

Prices 12½-lb. bag 50 cts., 25-lb. bag 90 cts., 50-lb. bag \$1.65, 100-lb. bag \$3.00, ton (2000 lbs.) \$50.00.

Special price in larger quantities.





# EVERYBODY KNOWS ROSS' SEED GROWS



## Farm Machinery

We represent all of the leading manufacturers of Farm Machinery, Poultry House and Stable Supplies, also Insecticides for all purposes. In our 14 floors (over one acre of floor space) and our large storehouse on the Boston & Maine tracks, we carry a large stock of the latest, up-to-date farm machinery.

While the horse is still with us and probably always will be, we are in position to furnish tractors for the large farmer and hand tractors for the home garden. Both have their place and both are practical on land adapted for their use.

### The International 8-16 H. P. Kerosene Tractor

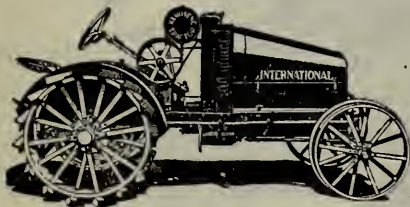


Fig. 1

A horse consumes when it is not working, a motor ceases to consume when it stops working, and as a tractor will do the work of several horses, the expense of plowing, harrowing and harvesting, is much less by motor power than by horse power. For often times one, two or three days' work with the tractor will do all the work that is necessary at that particular season and as soon as it is run under cover the expense stops, while horses keep consuming not only six days in the week but seven.

The question then to decide is what tractor to buy? For there are a great many on the market. A good writer can make up a good story on any one of them, but when to use in the field, there is a great difference in actual results.

The International Harvester Company is so well known that any one can buy their implements with perfect confidence that they will not only be made of first-class material, but that they will stand behind every implement that they put out.

This tractor is not only built for field work, but it is also built for belt work for operating any stationary machinery, such as cutting ensilage, threshing, sawing wood, or any other farm work where power of any kind is required. \$1150.00 f.o.b. factory.

### THE MIDWEST UTILITOR TRACTOR

This hand tractor is designed for the small farm or home garden where there isn't work to necessitate keeping a horse. It plows, harrows and does all kinds of garden work. Can also be used as a substitute for gasoline engine for operating with belt any machinery, such as a Corn Sheller, Root Cutter, Washing Machine, etc. Send for complete catalogue. Price guaranteed. \$400.00.

### JOHN DEERE LIGHT TRACTOR TWO OR THREE BOTTOM PLOW

This plow is especially adapted for all Standard Light Tractors; hitch and trip levers adjustable to suit any tractor.

The bottom of any plow is what does the work, all of the rest of the plow is built to enable the plow to do the work required of it.

The bottom or controlling rope raises the plow and another pull and the plow has entered the ground.

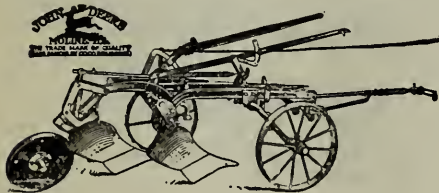


Fig. 3

The tractor does all the work of lifting.

This plow has extra heavy beams of steel, which prevent dragging the plow, as well as balancing for all conditions.

Price 2-12 inch Bottom Plows with  
Jointers .....\$200.00

Price 2-12 with Rolling Colters ....\$202.50



Fig. 2

## Cutaway Double Action Light Tractor Harrows

For the light tractors which are now becoming so popular a smaller size harrow is required and it is not necessary that it shall be so heavy. At the same time it must be a real tractor harrow and not a horse harrow. The Cutaway Light Tractor Harrow, taking advantage of every feature of the larger machine. At the same time it is built very much lighter. Its weight and construction are such that it exactly meets the requirements of the light tractors and it has proven an absolute success.

The Cutaway (Clark) Tractor Harrows are equipped with dust-proof, oil-soaked hardwood bearings.

This line of Cutaway (Clark) Tractor Harrows is complete and there is a size for every engine. For the extremely large tractors any size outfit can be used.



Fig. 4

X-5	20 18-in. Discs, 5½ ft. cut, 675 lbs.....	\$140.80
X-6	24 18-in. Discs, 6½ ft. cut, 835 lbs.....	169.30
X-7	29 18-in. Discs, 7½ ft. cut, 965 lbs.....	198.20
5% discount for cash.		

### Cutaway Bush and Bog Plow

As shown in the illustration, this machine is a big, heavy disc plow or harrow, weighing 680 pounds. It is equipped with extra heavy 24-inch discs. The bearings are dust-proof, oil soaked hardwood, perfectly lubricated. It is built very strong throughout and stands up under work that would totally wreck other machines. For cutting brush land and cut-over timber land, for plowing bogs, or for doing any extraordinary hard plowing and discing.

Price, 8-24 in. discs, 5 ft. cut, 4 horse hitch, \$139.50; Junior Harrow, 8-20 in. discs, 4½ ft. cut, 2 horse hitch, \$92.25. 5% discount for cash.



Fig. 5



## John Deere Two-Way Sulky Plow

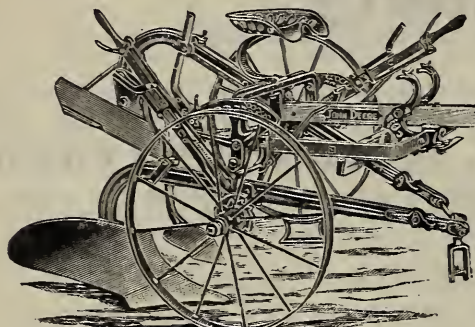


Fig. 6

The frame of this plow is wrought steel amply strong and rigid to stand any reasonable strain. The axles, bails, levers, and wheels are all steel and all the castings are malleable iron. In point of construction this plow is probably the strongest one on the market. This plow is remarkably easy to operate. Any boy who can drive a team can work it. The wheel base is 45½ inches, which makes it nearly impossible to tip over. Plows No. 1442S/1342S. Price, \$127.50.

5 per cent. discount for cash.

## Moline Two-Way Sulky Plow



Fig. 7

This plow is easy of operation, has adjustable seat for side hills so as to keep it level. The beam can be adjusted sideways from one extreme to the other for wide or narrow furrow without removing any bolts. Has automatic pole shifting arrangement which relieves the operator from using any lever at the end. This plow has very wide steel base which prevents it from tipping on side hills. Equipped with whiffletree, evener, yoke and two extra points. Price, \$125.00.

5% discount for cash.

## Syracuse No. 823 One Horse Plow

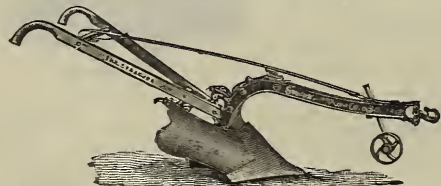


Fig. 8

This plow is similar in construction to the No. 822, only being somewhat lighter. It is just the right size for a large one-horse in plowing gardens. It is made of steel and malleable iron, same as the No. 822, only lighter. Ample room is provided under the beam to prevent clogging. This plow is furnished with wheel only. Price, \$25.25. 5% discount for cash. Weight, 133 lbs.

## Syracuse No. 822 2-Horse Swivel Plow



Fig. 9

Particular attention has been given to this plow for its ample throat capacity and close fitting joints to prevent clogging. The plow is built entirely of steel or malleable iron. It is furnished with wheel and automatic shifting jointer or coulter and shifting clevis. This plow will turn a furrow 4 to 7 inches deep and 4 to 10 inches wide, weight 140 lbs. Price with steel moldboard, \$40.25. With cast moldboard, \$37.00. Net 160 lbs.

5% discount for cash.

## Diamond A, B and C Plow



Fig. 10

New Style with Steel or Chilled Moldboard.

This is one of our best swivel plows. It is furnished with steel or chilled moldboard, patent foot latch, wheel and cutter and shifting clevis. All parts interchange with the '76 plow made at Castleton, Vt. A cuts 5 to 7 in., 11 to 14 in. wide; weight 150 lbs. Price, \$29.50 B cuts 4 to 6 in., 8 to 12 in. wide; weight 146 lbs. Price, 27.50 C cuts 3 to 5 in., 7 to 8 in. wide; weight 105 lbs. Price, 20.50

A and B are two-horse; C one-horse. A and B have wheel and cutter. C has wheel only. Steel Moldboards, \$2.50 extra on A and B.

5% discount for cash.

## The Arlington Swivel Plow

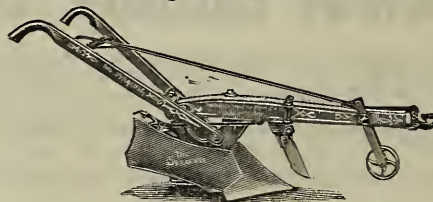


Fig. 11

The Arlington Plow has become a favorite in many sections. They are made with steel shifting lever, clevis, patent spring foot latch. Moldboards are made of patent steeled metal, and all castings nicely polished. The beam and handles are made from selected stock, neatly striped and varnished.

No. 30 turns a furrow 13 to 16 in. wide, 6 to 8 in. deep. Weight, 135 lbs.

No. 29 turns a furrow 12 to 14 in. wide, 5 to 7 in. deep. Weight, 123 lbs.

No. 27 turns a furrow 8 to 11 in. wide, 4 to 8 in. deep. Weight, 85 lbs.

No.	Weight	With Wheel and Wheel	Cutter
30.....	140 lbs.		\$28.00
29.....	123 lbs.		27.00
27.....	85 lbs.	\$16.25	20.00

5 per cent. discount for cash.



## Shovel Plow

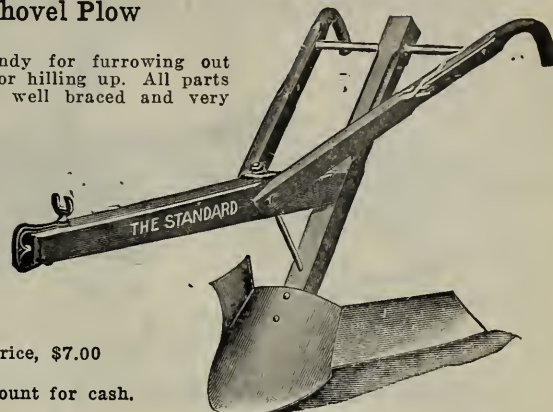


Fig. 18

Number	Description	Price
No. A.	Light one-horse.....	\$10.00
No. B.	Medium one-horse.....	12.00
No. 10.	Large one-horse.....	14.50

5% discount for cash.

Grading Plow No. 1-78

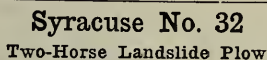


Fig. 16

5% discount for cash.

This plow has steel moldboard and wheel, straight cutter or jointer. No. 32 is the same plow used on the double sulky with the addition of a pair of handles, and no better plow was ever made.

No. 32 cuts 5 to 7 1/2 in. deep, 10 to 13 in. wide; weight, 103 lbs. Price, \$36.50.  
5% discount for cash.

## Contractors' Plow



Fig. 14

A good general purpose plow, designed for all kinds of garden work. Wood beam, cast moldboard and point.

			Wheel and Cutter
E 0	Medium one-horse.....	\$10.00	
E 1	Large one-horse.....	11.50	
E 2	Light two-horse.....	14.00	
E 3	Medium two-horse.....	15.00	\$22.00
E 4	Two or three-horse....	19.50	25.50
	5% discount for cash.		

Fig. 19

This plow is designed for plowing between rows of trees or vines. The handles are adjustable sideways or up and down. The horse can walk in the furrow or on the land. It can also be used for garden plowing. Iron beam; cuts 3 to 5 in. deep, 7 to 10 in. wide; weight, 63 lbs. Price, with wheel, \$16.75.

5% discount for cash.

# Pavement Plow No. 98



Fig. 20

Price, \$56.00

5% discount for cash.

## Dunham Water Weight Lawn Roller

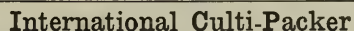
The Dunham Water Weight Lawn Roller is electric welded, making the water section one solid drum, no rivets are used. It cannot leak. The roller surface is perfectly smooth and cannot injure the lawn. The handle weights are to counter-balance the weight of the handle and keep it in an upright position off from the ground.

RETAIL PRICE OF DUNHAM WATER  
WEIGHT LAWN ROLLERS

				Weight	Filled	
	Diameter	Length	Sec.	Empty	With	
	Inches	Inches	tions	lbs.	lbs.	Price
HW4	18	24	1	135	360	\$18.00
HW6	24	24	1	185	560	23.00

We can furnish these same rollers without handle weight at \$1.50 less, f.o.b. cars at factory, but with the weight the handle is always where you want it and never in the mud and is well worth the difference in price.

5% discount for cash.



### THREE TOOLS IN ONE

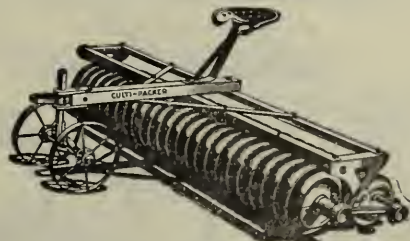


Fig. 21

This is one of the best built machines that ever helped the farmer to get a bumper crop. The frame is made of heavy angle steel bars, bolted fast. Two Channel steel bars run diagonally from the tongue across the frame. It takes the place of the old roller. This is not only a clod crusher, but a pulverizer, picker and cultivator. This machine is practically indestructible and will last a life time.

**Price, \$105.00.**

**Price, \$105.00.**

5% discount for cash.





## Clark's Double-Acting Cutaway Harrow

This harrow has two pair of gangs, one throwing in and the other out, which thoroughly pulverizes and levels the ground at the same time. This is a very strong made harrow and can be used for either two, three or four horses.

Two-horse hitch

Price A 5 Double Acting 20 16 in. discs. 5½ ft. cut, 530 lbs. \$107.20

Price X 4 Double Acting 16 18 in. discs, 4½ ft. cut, 535 lbs. 111.50  
Price A 4 Double Acting 16 16 in. discs, 4½ ft. cut, 440 lbs. 91.65  
Discount 5 per cent. cash with order.

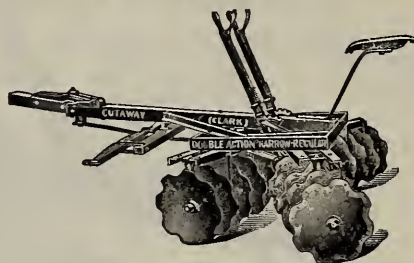


Fig. 22

## Clark's One-Horse Cutaway Harrow

This harrow is especially adapted to the needs of small farmers and fruit growers. It has ten 14-inch cut-out steel discs and is the only one-horse Disc Harrow that we have ever seen that we could recommend. A six Disc Harrow is not practical on account of the width. This Harrow cuts 4 feet and overcomes that difficulty. We can recommend this Harrow as being far superior to any spring tooth for general farm work. With seat.

No. of Machine	No. of Discs	Diam. of Discs	Width of Cut	Hitch	Shipping Weight	Price
*O-5	10	14	4 ft.	1-H	169	\$42.55

5% discount for cash.



Fig. 23

## The Hoover Potato Digger

The standard potato digger of the East. This digger harvests the entire crop. The potatoes being dropped at the rear and are not covered with dirt or trash. Potatoes are left in a narrow row and not scattered and can be easily picked up. This separation of the potatoes from the dirt is complete and potatoes are not cut or bruised in the operation. No. 300, weight 985 lbs. \$187.50.

5% discount for cash.



Fig. 24

## P & O Potato Digger

A good practical potato digger at a reasonable price. By the use of two front wheels, the crushing and mutilating of potatoes is avoided. The vines will not clog as they frequently do with a digger with only one wheel, as the wheels run on solid ground between the rows, keeping the digger on an even course and working at a uniform depth. The wheels are adjustable. The grate at the rear is hinged at the front and is given an up and down shaking motion by a 5-tooth wheel at the rear. This sifts out the dirt as the potatoes pass over the rod. Weight, 155 lbs. Price, \$30.00.

5% discount for cash.

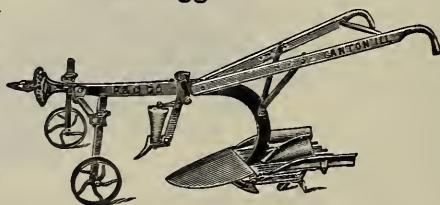


Fig. 25

## The Hitchcock Potato Digger and Shovel Plow Combined

This Potato Digger will not only dig potatoes, but can also be used as a hiller by attaching the special hiller wings. Also can be used for furrowing out. You get best results by using two horses, allowing one to walk on each side of the row.

Price as Digger..\$14.00

Price complete with wings.... 16.00

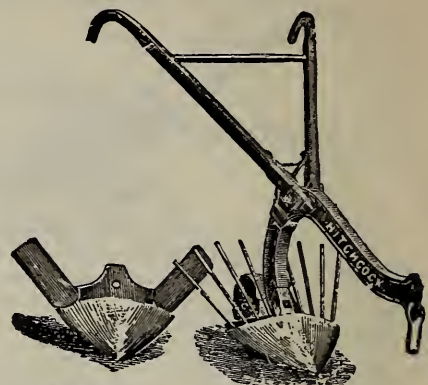


Fig. 26

## Clark Reversible Single Action Cutaway Harrow

All Cutaway Single Action Harrows are reversible. If you will observe the illustration you will see that the "dish" of the discs is out, and consequently the soil is moved outwardly. To reverse this harrow, you simply disconnect the lever links from the gang frames and swing the gangs around on the king bolts until what were formerly the outer discs become the inner discs, and reconnect the links. In this latter position the discs will throw the soil inwardly.

Like those on all other Cutaway implements, the discs on this harrow are the famous Clark cutlery steel discs, forged sharp. This feature partly accounts for the remarkably long service always given by Cutaway disc implements.

No. of Machine	No. of Discs	Diam. of Discs	Width of Cut	Hitch	Shipping Weight	Price
A-6	12	16	6 ft.	2-H	315	\$65.50

5% discount for cash.

## CLARK BABY CULTIVATORS

These cultivators are made of the same high grade of steel as the harrow and are very efficient in pulverizing the soil between rows of garden truck or berry bushes.

Wt.	No.	Diam. of Discs	Discs	Width of Cut	Price
90 lbs.	No. 1	6-14 in.	disc. 24	in. cut	\$27.55
105 lbs.	No. 2	8-14 in.	disc. 32	in. cut	\$31.80

5% discount for cash.



Fig. 28

## HARROW TONGUE TRUCK

Note that both the tongue attachments and the team hitch are adjustable up and down, independent of each other. That the axle joint meets every requirement is shown in the illustration herewith. The oil-soaked hardwood bearings are set in a dust-proof hub and are lubricated from compression grease cups. This truck is strong and durable, weighs sixty pounds. The wheels sixteen inches diameter, eight spokes. This truck will fit any make of harrow. If a tongue truck is used on the Cutaway Single Action Harrow it should be this. Price, \$11.45.

5% discount for cash.



Fig. 29





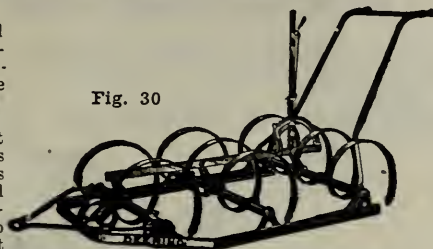
# EVERYBODY KNOWS ROSS' SEED GROWS



## ONE-HORSE VINEYARD HARROW

This harrow is aptic-  
ularly adapted for small  
fields, orchards and nur-  
series where a large two-  
horse harrow cannot be  
used. The main frame  
is of angle steel bent up  
at the frint so that it  
passes over obstructions  
easily. The tooth beams  
are placed high and  
made of pipe of suf-  
ficient dimensions to  
make them both light  
and strong. The teeth  
are spaced on the tooth  
bars so that trailing is impossible. Each tooth does its full share of  
the work. Weight, 130 lbs. Price, \$20.00. 5% disc. for cash.

Fig. 30



Deering Vineyard Spring Tooth Harrow—  
9 tooth

## DEERING BUMPER DISC HARROW

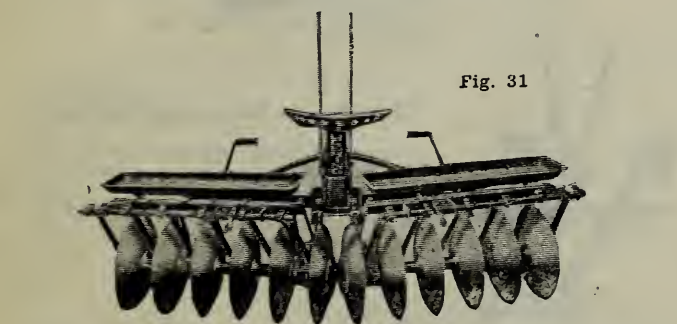


Fig. 31

Has 12 16-inch discs and weight boxes. The main frame of this  
harrow is constructe din such a manner that the heavy bent iron bars  
which fasten the main frame to the bearings are hinged both to the  
main frame and in the bearings. This allows the rigid frame to be  
used and gives an opportunity for the disc gangs to work close to-  
gether. The cross beam of the frame is made of angle steel and the  
bars running from the ends of the cross beam to the tongue are heavy  
steel. The bearings are arranged so they can be easily oiled and are  
fitted with metal bushings which can be replaced when they become  
worn. This makes the harrow very strong and durable. Weight, 469  
lbs. Price, \$60.00.

5% discount for cash.

## SYRACUSE ONE-HORSE SPRING HARROW



Fig. 32

sists in maintaining a uniform depth of cut, also in quickly unloading  
the cultivator of trash.

Has ten spring teeth, oil-tempered, and is adapted for all kinds of  
work. Has given perfect satisfaction. Price, \$19.00.

5% discount for cash.

## MEEKER SMOOTHING HARROW



Fig. 33

This consists of a frame with four sets of rollers and 58 steel discs,  
which work between each other. The discs grind all lumps very fine  
and mash small stones below the surface better than any field roller.  
4 ft. 6 in. x 4 ft. with 8 in. discs.....175 lbs.....\$34.00  
6 ft. 8 in. x 6 ft. with 8 in. discs.....200 lbs.....40.00  
8 ft. x 6 ft. with 8 in. discs.....300 lbs.....50.00  
6 ft. 8 in. x 6 ft. with 10 in. discs.....250 lbs.....45.00  
8 ft. x 6 ft. with 10 in. discs.....350 lbs.....57.00  
5% discount for cash.

## INTERNATIONAL TWO-HORSE HARROW

There is a harrow  
made for every kind of  
work and the spring  
tooth has its place and  
should be on every  
farm. It will take hold  
and pulverize where  
other makes have  
failed. Teh action of  
the teeth break all lumps  
and leave a fine seed  
bed.

### PRICES

15 tooth .....\$30.00  
17 tooth ..... 32.50  
5% discount for cash.



Fig. 34

## THE ORIGINAL PERRY SPRING HARROW



Fig. 35

This is the first spring-tooth harrow ever offered for sale, and it has  
many friends. For durability it is equal to any harrow made. The  
wood frame is lined with carbon steel. Bolt heads are protected. The  
teeth can not get loose. Used among rocks and stumps which would  
soon break any other harrow to pieces. Price, 16-teeth, \$19.00.

5% discount for cash.

## SPIKE-TOOTH SMOOTHING HARROW



Fig. 36

transported to and from the field on th eshoes at the end. Each tooth  
is held in place by two bolts, while nearly all other harrows use but  
one. Teeth can be moved down as they wear. The entire harrow is  
made of steel. Price, 60-teeth, \$27.50.

5% discount for cash.

Designed as a level-  
ing harrow, and for  
covering all kinds of  
grain and grass seed;  
also largely used for  
cultivating corn and  
potatoes just after they  
come up. The teeth  
are adjusted by means  
of a lever and can also  
be thrown up from the  
ground and harrow

## PROUT'S TWO-HORSE HOE

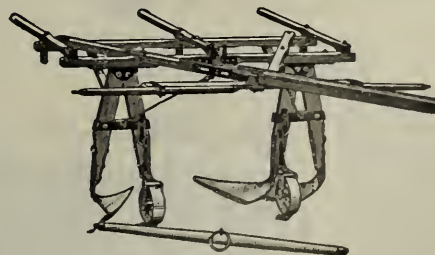


Fig. 37

Each standard as shown in the cut has two Hoes attached, and in  
working one set of hoes work on one side of the hill and the other  
on the opposite side, hoeing a row at a time. The hoe operates same  
as a hand hoe, moving fresh earth to the plant, and crowding the old  
dry earth away from the plant. The hoes being made tapering permit  
of cutting close up to the plant without injury to corn roots which  
run close to the surface. Price, with wheels, \$31.00; price, no  
wheels, \$28.00. 5% discount for cash.





## THE ACME PULVERIZING HARROW

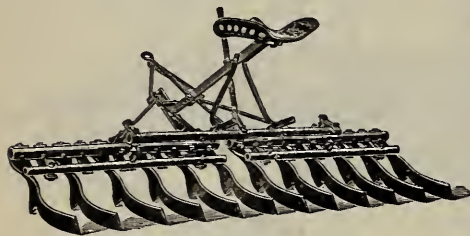


Fig. 38

surface, without disturbing sods or trash that has been turned under by the plow. It prepares a perfect seed bed, and also covers seed in the best manner. The draft is reduced to a minimum. Being made entirely of cast-steel and wrought iron, it is practically indestructible.

No. 23. Regular size. 1 and 2 horse, made in two sections. Price, \$33.00. 5% discount for cash.

A general purpose harrow that will crush, cut, lift, turn, smooth and level the soil to perfection all in one operation. While pre-eminently adapted for heavy, stubborn land, it can be adjusted, by means of levers and runners, to do perfect work on the lightest soil. It cuts the entire

## NO. H, ONE-HORSE "ACME" HARROW

This style has 8 coulters, crushing shoes and seat; works, 4 ft. 4 in. wide; weight, 90 lbs.

Price, \$23.00. 5% discount for cash.

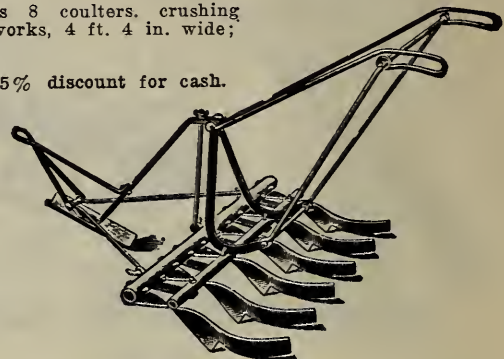


Fig. 42

## International No. 4 Pivot Axle Riding Cultivator

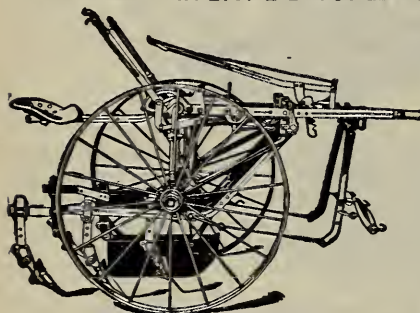


Fig. 39

implement. Weight, 500 lbs. Price, each, \$70.00.

5% discount for cash.

This cultivator runs on ball bearings, gangs are always parallel, cultivating depth is controlled by levers, draft direct to the gangs. It is equipped with 8 double pointed shovels and trip slotted shanks. This style is especially adapted for the Eastern States. Can be adjusted from deep to shallow work, wide and narrow cultivation, without leaving the seat. Equally good on Corn, Potatoes, Peas, Beans, etc. A boy who can handle a team can do clean cultivating with this

## International 5-Tooth One-Horse Cultivator

This cultivator has 5 steel teeth, expanding width from 12 to 25 inches. Frame is high to clear trash and is good length, which enables it to run steady. Each standard has 3 holes for adjusting. Equipped with adjustable wheel and expanding lever. Weight, 75 lbs. Price, \$12.50.

5% discount for cash.

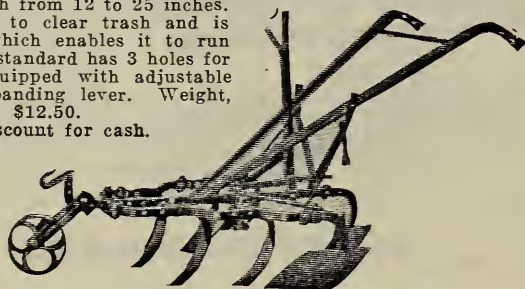


Fig. 40

## Empire Junior Drill

By the use of a Grain Drill you decrease the quantity of seed used and increase the yield. Every seed is properly planted, which is just as necessary as with any hoed crop. The increased yield, even if it is only a few bushels per acre, will well pay for the interest on the drill. Ask for complete catalogue showing the Empire Jr. Space does not permit of our describing it in detail.

No. 11-7 Single Disc Fertilizer Drill with pole, 1200 lbs. .... \$205.00

Grass seed attachment ..... 7.85

Seat attachment ..... 3.00

5% discount for cash.

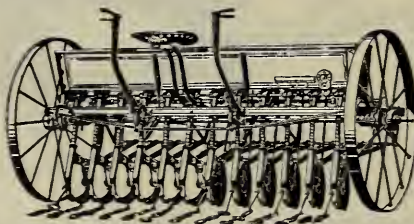


Fig. 41

## The Goslee Improved Marker

Adjustable Tooth, Spreads 2 to 4 ft. This machine is designed to mark out rows of any width, and in doing so it makes a furrow suitable for planting. Price, \$16.75.

5% discount for cash.

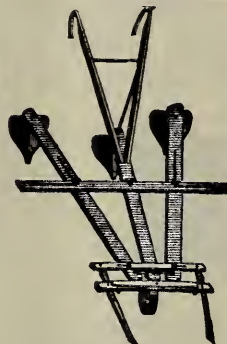


Fig. 43

## SPRING TOOTH CULTIVATOR

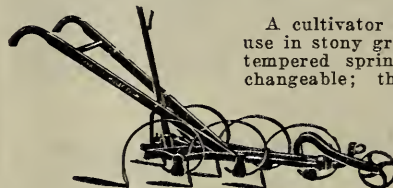


Fig. 44

A cultivator that is especially adapted for use in stony ground. The teeth are fine, oil-tempered springs, and are alike and interchangeable; they are also adjustable for angle and depth. Has expanding lever, five spring teeth and wheel. Price, \$8.50. 7 Tooth Spring Cultivator, \$10.00.

5% discount for cash.

## YANKEE CULTIVATOR

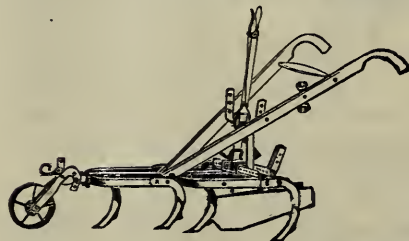


Fig. 45

New Yankee Cultivator with long hillers. Can be used for furrowing out or covering, also for hilling potatoes and similar crops. Price, \$14.00.

5% discount for cash.

## SPIKE TOOTH CULTIVATOR AND HARROW

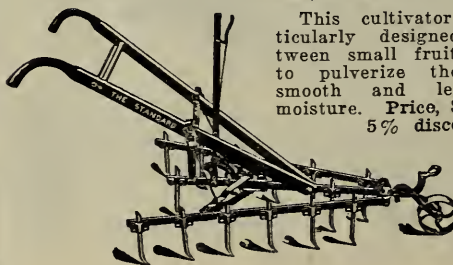


Fig. 46

This cultivator and harrow is particularly designed for cultivating between small fruits. Especially adapted to pulverize the soil and leave it smooth and level, thus conserving moisture. Price, \$9.00.

5% discount for cash.





# EVERYBODY KNOWS ROSS' SEED GROWS



## Planet Jr. Farm and Garden Tools

If you are a farmer, trucker, orchardist, or suburbanite with a kitchen garden, there is a Planet Jr. made for your special need. You can't afford to work without a Planet Jr. 71-page Planet Jr. catalog free. Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.

### No. 3 Planet Jr. Hill and Drill Seeder

Holds 3 Quarts of Seed.  
A favorite among onion growers, market gardeners and seedsmen. Sows accurately in a narrow line, making wheel-hoe cultivation easy. Price \$22.00



Fig. 47

The flow of seed is instantly started or stopped by the cut-off rod. Sows in large or small quantities in drills or in hills, 4, 6, 8, 12, 24 inches apart.

We recommend customers to buy separate seed drills and wheel hoes where they have enough work to warrant it, and this is our popular size at a popular price.

### No. 5 Planet Jr. Hill and Drill Seeder

Price, \$25.00. 1 1/2-inch steel driving wheel. Holds 5 quarts. No. 5 is undoubtedly the best seeder we make for market gardeners, onion set growers and other large planters. The style of construction is the same as in No. 3, the valuable mechanical features being common to both.

### No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

Price complete, \$23.50.  
As a Seeder only (No. 4D), \$18.75.



Fig. 48

This tool sows all garden seeds from the smallest up to peas and beans in hills, 4, 6, 8, 12 or 24 inches apart, or in drills. No time is lost. No seed is wasted. By removing the seeder parts and substituting the tool frame, you have a first-class single wheel hoe. Makes the care of a garden a pleasure as well as very profitable. Can be used successfully by men, women or growing boys. Pays for itself in a season and will last for years.

### No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow

Price, \$26.50.  
Holds 2 1/2 quarts of seed.



Fig. 49

A splendid combination for the family garden, onion grower, or large gardener. It is a perfect seeder, and combined double and single wheel hoe.

### No. 31 Planet Jr. Combined Drill Seeder and Single Wheel Hoe

Price, \$15.50.



Fig. 50

This new tool is of great value to gardeners who have never felt able to own either a seed drill or a wheel hoe. It will sow even a small packet of garden seed with great precision. Quickly changed to a splendid wheel hoe. A special machine for the small gardener.

### No. 31D Planet Jr. Seeder

Price, \$12.50.

This is the No. 31 shown above, without the cultivating attachments. If you have a wheel hoe and want to save labor in planting your garden and make the wheel hoeing easier, we recommend this No. 32 seeder.

### No. 11 Planet Jr. Combined Double and Single Wheel Hoe, Cultivator, Plow and Rake

Price, with Attachments as in cut, \$19.00.

14-inch Steel Wheels  
Steel Frame.

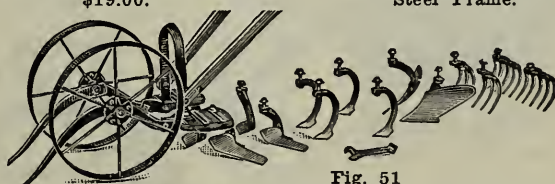


Fig. 51

A single and double wheel hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.

### No. 12 Planet Jr. Double Wheel Hoe, Cultivator and Plow

Price, \$15.50.

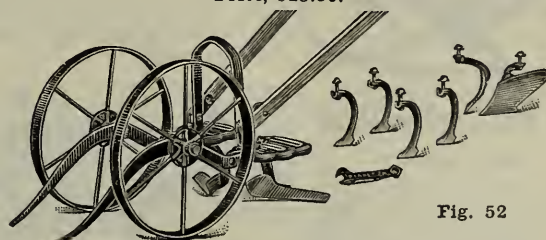


Fig. 52

This tool is identical with No. 11 Double Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf lifters only. They are what gardeners use most, and the others can be added as wanted.

### No. 119 Planet Jr. Garden Plow and Cultivator

This new member of the "Planet Jr." family will appeal to all those who prefer a high wheel tool for their garden work. Where the soil has not been so thoroughly and carefully prepared, the high wheel undoubtedly makes an easy running tool. The wheel is 24 in. in diam. with a rim 1 1/2 in. wide, insuring easy running in the lightest soil.

The equipment is so complete that it will meet all the needs of the ordinary garden, where the adjustments and refinements of the higher priced Wheel Hoes are not required.



Fig. 53

Price, \$6.50.





## Planet Jr. Farm and Garden Tools

### No. 19 Planet Jr. Single Wheel Hoe

Price, \$7.50.

This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for wheel-hoe operations.



Fig. 54

### No. 17 Planet Jr. Single Wheel Hoe

Price, \$10.75.



Fig. 55

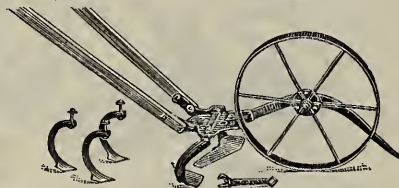
Same as No. 16, but without the Rakes and Leaf Lifter. These Single Wheel Hoes have steel frames and 15-inch steel wheels.

### No. 17½ Planet Jr. Single Wheel Hoe

Price, \$9.15.

Fig. 56

This tool is identical with No. 16, except in equipment. The pair of 6-inch hoes, three cultivator teeth and leaf lifter which go with it, are all the finest of their kind.



### No. 18 Single Wheel Hoe

Price, \$7.50.



Fig. 57

This has one pair of 6-inch hoes only—the tools that are most constantly useful throughout the season. Other attachments can be added as needed.

### Fire-Fly Garden Plow

Price, \$5.00.

This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken raisers find it of great advantage in plowing up their scratching yards. It will throw a furrow four to six inches wide and one to three inches deep.

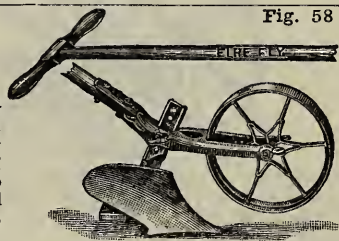


Fig. 58

### No. 33 Planet Jr. Single Wheel Hoe

Price, \$8.00.



Fig. 59

The Wheel Hoe portion of the No. 31 Combined Seeder and Wheel Hoe.

This combination will delight the suburbanite, the growing boy, women, younger or older, who will find it a light running wheel hoe that will save them hard work and help much to supply the table with fine vegetables.

### No. 16 Planet Jr. Single Wheel Hoe

Price, \$12.75.

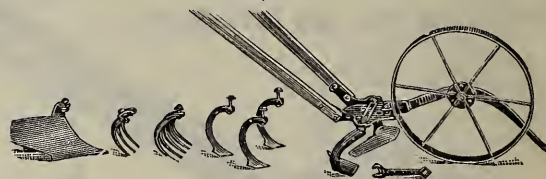


Fig. 60

The highest type of Single Wheel Hoe made. Light, but strong, and can be used by man, woman or boy. Will do all the cultivation in your garden in the easiest, quickest and best way.

### No. 8 Planet Jr. Horse Hoe

Price, \$25.00.

Stronger, better made, and capable of a greater variety of work than any other cultivator made. Non-clogging steel wheel. Depth regulator and extra long frame make it run steady.

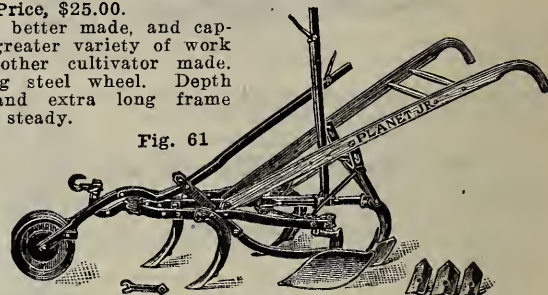


Fig. 61

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same as No. 8 in every way except that it lacks the steadiness and easy control of depth made possible by the depth regulator. Price, \$23.75.

### No. 9 Planet Jr. Horse Hoe

Price, with Steel Wheel, \$21.50.

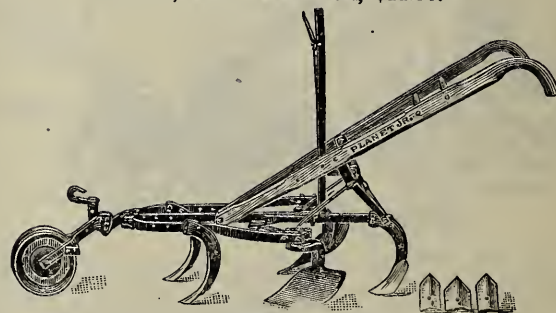


Fig. 62

Is identical with No. 8, except that it has no depth regulator, and has a plain wheel instead of lever wheel.

### No. 90 Complete, with Steel Wheel

\$25.00.

Weight, packed, 74 lbs.

No. 90B (without Pulverizer),

\$21.25.

No. 91 (with wheel), \$18.75.

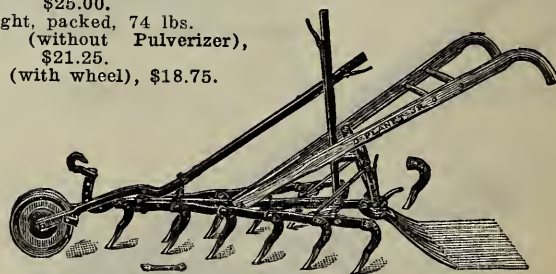


Fig. 63

An invaluable tool in the market garden, truck and strawberry patches. Has new steel wheel which prevents clogging. Its 12 chisel-shaped teeth cut out all weeds, stir and mellow the soil and leave the ground in the finest condition without throwing dirt on plants.





# EVERYBODY KNOWS ROSS' SEED GROWS



## Aspinwall Potato Planter

Improved for 1919.

THIS MACHINE PLANTS A GREATER RANGE OF SEED, both as to size and shape, than ever before and handles it with the least possible friction or wear. To regulate the distance of planting—simply a change of gear wheels, which can be made in less time than it would take to replace one picker. In lieu of the cumbersome wooden structure, a CANVASS HOPPER has been substituted, which overcomes all tendency to clog or bridge with either whole or cut seed. BOTH THE FEED AND COVERER TENSION ARE REGULATED FROM THE SEAT. NO removal of bolts—simply turning a thumbscrew does the work. List price, with fertilizer attachments and disc coverers, \$174.00, 5% Cash.

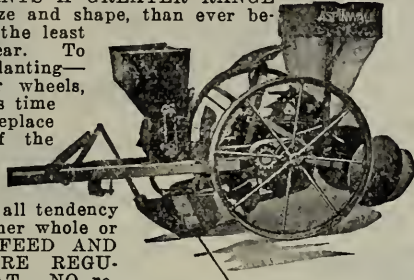


Fig. 64

## Aspinwall Potato Sorter

With this popular machine from 500 to 1,000 bushels of potatoes may be sorted per day. Although the sorting is rapid it is superior to hand work. A most desirable feature is the low down hopper, making easy work when shovelling and feeding the machine.

In operation the potatoes are carried over an elevator of long distance travel, composed of a series of oscillating plates, provided with forked openings through which the small sizes pass, while the marketable ones are delivered through a sack or basket.

Price, \$55.00, 5% disc. for Cash.



Fig. 65

## Farmer's Friend Fertilizer Sower

Attaches to any ordinary farm wagon, and sows to perfection grass and grain seeds of all kinds and in any desired quantity per acre, 50 to 100 acres a day. It also distributes all dry commercial fertilizers; also ashes, land plaster, lime, etc. It has positive feed and an adjustment opening the holes from  $\frac{1}{4}$  to  $1\frac{1}{2}$  inches, which allows the sowing of seeds of any size; the flow can be shut off anywhere, either on one side or the other, or altogether, as required; it is instantly thrown in or out of gear. Price, complete to attach to wagon, \$15.00.

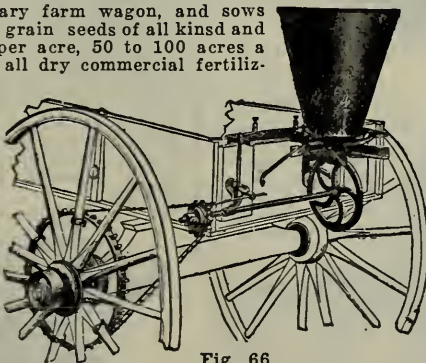


Fig. 66

## Eclipse Corn Planter and Fertilizer Distributor

Plants field or ensilage corn, beans, peas or beet seeds in hills, drills or checks; it will drop 6, 12, 24 or 36 inches apart. By scattering pumpkin seeds in with the fertilizer in filling the hopper will place seeds in hills when planting corn. It accurately distributes from 50 to 450 lbs. as desired, of commercial fertilizer, wet or dry, in the rows of hills, first drawing moist earth on the seed before the fertilizer is dropped each side of the seed, and all is covered to a uniform depth. Price complete, \$40.00. 5% discount for cash.

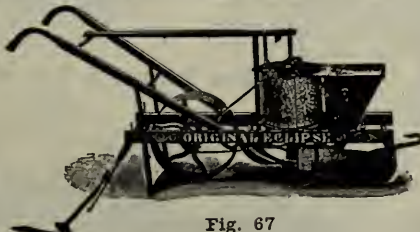


Fig. 67

## McWhorters Hand Fertilizer Sower

This fertilizer sower can be instantly changed so that the stream is divided from one into two or more streams, and thus be applied beside one, two or more rows of plants at the same time. The spouts or channels through which it passes to the ground open and close, so that starting with a width of about 4 inches the spread can be gradually increased to 30 inches. This is especially adapted for top dressing strawberry beds and lawns. Price, \$21.50.



Fig. 68

## "King of the Cornfield"

Corn, Bean and Pea Planter and Fertilizer Distributor.

Does perfect work, not only in planting corn in hills or drills, but does equally as good work planting peas, beans, and all similar seeds, putting in the fertilizer as well, in any desired quantity, or the fertilizer may be stopped off altogether, if desired. Another great feature in this machine, corn and beans may be planted at the same time in the same row, the beans half way between the corn, or  $\frac{1}{4}$  or 9 inches from corn, as desired. The fertilizer may be put with the corn and left out of the beans, if desired to do so. Price, \$40.00.

5% discount for cash.



Fig. 69

## The Stevens Fertilizer Sower

For sowing all kinds of commercial fertilizer, either damp or dry, in drills or broadcast. Thoroughly satisfactory as a lime spreader. In meadows and orchards almost a necessity. Unequaled for top-dressing grass lands, lawns or large parks. 5 ft. 10 in. Price, \$75.00.

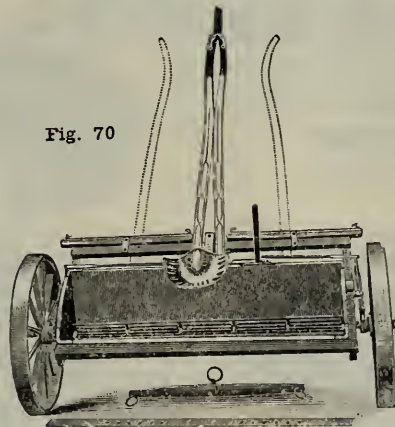


Fig. 70

## Eclipse Two-Row Two-Horse Corn Planter

The most complete, accurate, durable, and easily handled double row corn planter in the market. All the good points found in the well-known and popular "ECLIPSE SINGLE ROW PLANTER" are retained in this machine. Sows 36, 38, 40 and 42 inches apart. The new Marker Device, used for two seasons with perfect success on the single-row Eclipse, is used on this. One move of the lever throws the machine out of gear, and at the same time raises the planter and coverers ready for turning the team at end of rows. Price, \$95.00.

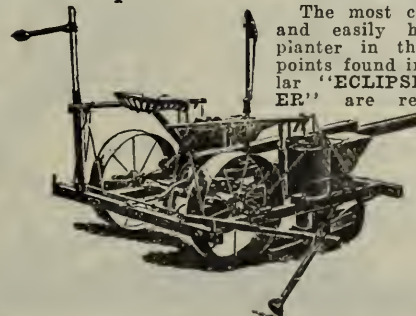


Fig. 71

5% discount for cash.





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

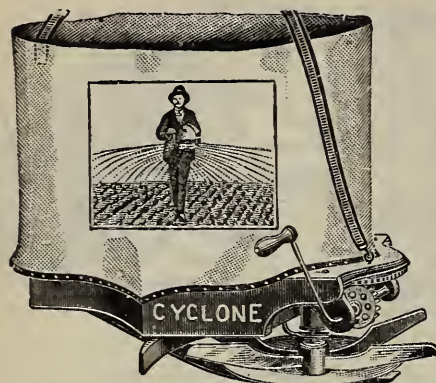


Fig. 72

## Cahoon's Improved Broadcast Seed Sower

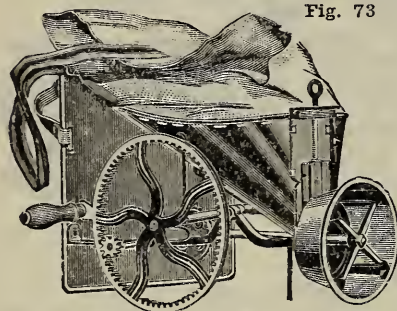


Fig. 73

Will sow all kinds of grass and grain seeds from 4 to 8 acres per hour at a common walking gait. Heavy seeds, such as wheat, it will throw 40 feet (20 from each side of the operator); lighter seeds, of course, will not be thrown so far. Price, \$4.50. 8 lbs.

## The Worcester Weeder—The Farmers' Best Friend

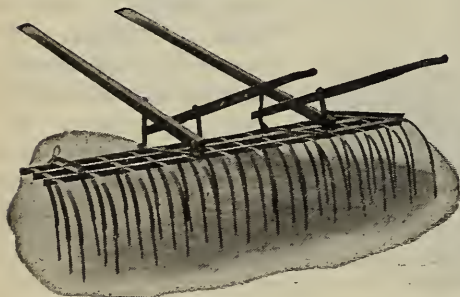


Fig. 74

One of the indispensable articles on any farm, where horse cultivated crops are grown, or where corn or grass seeds are sown. This weeder is made of high carbon angle iron steel, teeth attached to frame with bolts and are held tight by a spring steel lock washer. This is the best implement made for preparing a seed bed and will pay for itself in one season. In cultivating corn it should be used just before the crop is up and immediately after. Destroys the weeds but does not injure the crop. Price, \$17.50.

## Automatic Hand Corn Planter

Very handy for replanting and for small gardens.  
PRICE, \$2.75.  
Mailing weight 5 lbs.

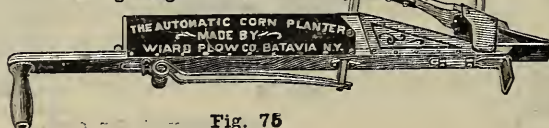


Fig. 75

## The Cyclone Broadcast Seeder

Will sow Timothy, Clover, Wheat, Oats Rye, Buckwheat, Hungarian, Red Top, Millet and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day. Net price, \$2.50. Mailing weight 2 lbs.



Fig. 76

The best implement made for furrowing, covering and hilling potatoes and similar crops. The steel covers or wings can be adjusted for making any style of hill desired in furrows uniform width. All potato growers know the value of this tool and none of them attempt to get along without it. It is necessary to cover young plants completely when just out of the ground. The steel hillers are made of best crucible spring steel and will last for a lifetime. Price, \$17.85.

## The Worcester Horse Hoe and Hiller with Disc Wings



Fig. 77

This implement is the same as the Worcester Horse Hoe and Furrower with exception of discs which are used in place of steel hillers or covered wings. They are adjustable and by many are preferred to the steel hillers. All potato growers should have one of these two implements. These discs are made of best crucible steel and will last for a long time. Price, \$15.25.

## International Manure Spreaders

All International Manure Spreaders have steel frame and can readily be called a steel machine, as they are made almost entirely of steel. The box, sides and front are practically the only parts of wood. Light weight, great strength and durability are the result. Steel frame makes the foundation. They are strong cross-tied and parts holding the bearings in alignment have withstood after many seasons of hard use. The main axles are

## Thompson's Seeder

Fig. 78



For Broadcasting Grass, for sowing Red Top, Clover, Timothy, and All Mixed Seeds. Light, strong and simple.

Sows uniformly the whole length of the hopper, twelve feet.

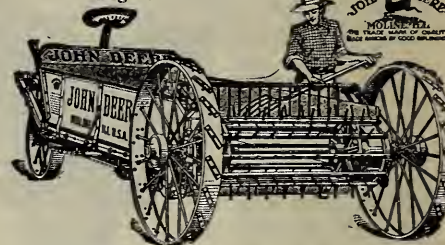
Seeder No. 5. Sows Clover, Timothy, Hungarian, Millet, Alfalfa, Chaffy Seeds, like Red Top, Orchard Grass and Kentucky Blue Grass. Price, \$10.00.

No. 4. Grain Seeder Box, 10 feet, for sowing Seeder No. 5. Sows Clover, Timothy, Hungarian kinds of grain. Fits No. 5 Seeder, and with both boxes all kinds of grain and grass seeds can be sown. Price, \$5.50.

No. 5 Seeder and No. 4 Grain Box. Price, \$15.50.

## John Deere Spreader

Fig. 79

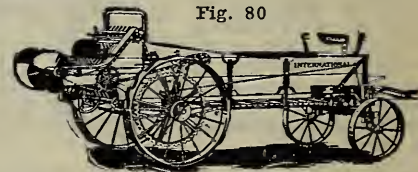


No clutches to give trouble, no chains to get out of line, very easy to load and has very few parts.

The change of feed is accomplished by a double shoe which is moved from the seat. This shoe determines the number of teeth the ratchets engage at each stroke. Whether spreading five or twenty-five loads to the acre, the stroke of the ratchet arms is always the same. It has an endless apron and the ratchet feed is locked, steady and positive apron on spreader has many advantages. Larger loads can be hauled and spread.

The beater is made entirely of steel, and there is no chance for it to get out of shape. It has ten bars made of high carbon, channel steel to which the teeth are fastened. Price, 30 bu. capacity, \$235.00; 40 bu. capacity, \$238.00.

Fig. 80



equipped with oil bearings, making this spreader very light in draft and allows of a much larger beater than other spreaders. Send for complete catalogue. Weight 1540 lbs. Price, \$225.00.

## The Segment One-Hand Corn Planter

Lightest, most accurate, sturthest and most up-to-date planter on the markets. All parts are interchangeable.  
PRICE, \$2.25.

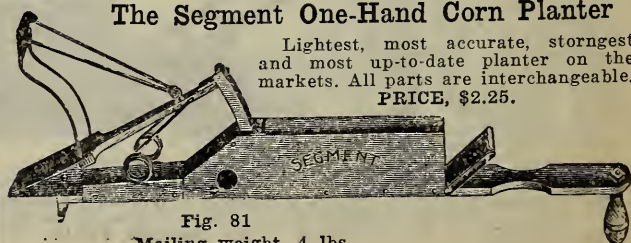


Fig. 81

Mailing weight, 4 lbs.





# EVERYBODY KNOWS ROSS' SEED GROWS



## DEERING IDEAL MOWER

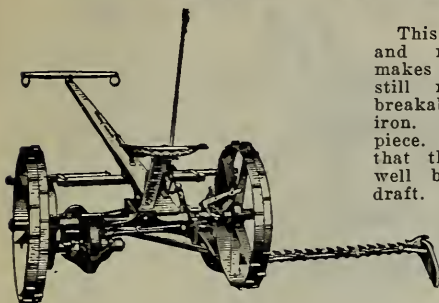


Fig. 82

This machine runs on ball and roller bearings which makes a very light draft and still running machine. All breakable parts are malleable iron. Frame is cast in one piece. Gears are so placed that the entire mechanism is well balanced, with no side draft.

### PRICES

4 foot cut, one horse.  
Ideal Mower, \$90.00  
5 foot cut, two horse.  
Ideal Mower, \$95.00  
6 foot cut, Giant  
Mower, \$105.00

## ADRIANCE BUCKEYE MOWER

This machine has direct draft and no neck weight. The foot lever for raising the bar is directly in front of the driver's feet, making it very easy to operate. All levers on this machine are within easy reach of the driver. Cutter bar folds over the pole for transportation. This machine always gives satisfaction.

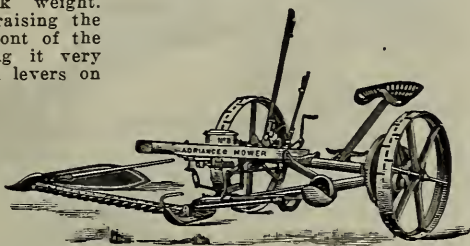


Fig. 83

PRICES: 4 foot cut, one horse, \$85.00; 5 foot cut, two horse, \$90.00.

## MOWING MACHINE SECTIONS

No. 86

All of our mowing machine sections are put up in the latest improve dstyles, that is each box will contain 25 sections. All the sections are fully warranted and we have all sizes to fit the Deering, Buckeye, Champion, Wood, McCormick, or Osborne machines. We are able to sell these sections at a price less than the common sections which we have sold heretofore. Give size when ordering or send old one for patterns. Price, \$1.65 per box of 25 sections. Wt. 4 lbs.

## VICTOR TUBULAR STEEL FRAME GRIND-STONE

WITH FOOT-TREADLE AND SEAT



Fig. 84

Adjustable seat, 4 to 5 inches vertically. Stone movable forward and back on frame. Frame being slightly flexible, it adjusts itself to uneven floors or surfaces. Rigid and easily set up. Bi-treadle with power properly applied. Hinged connection with ball-bearings on crank. Ball-bearings in journals. Frame is narrow at top, making it convenient to apply power, and spread at base, giving greater rigidity. Crated complete, stone protected. Made in one size, about 100 lb. stone. Price, \$10.00.

## WILCOX MOUNTED GRIND- STONE

Fig. 87



This is the best low-priced grindstone on the market. The stone is best Berea Grit (Ohio), the legs are iron, which will not rot if left out durin ghaying; the wood side-pieces are painted bright vermilion. Runs on ball-bearings, and every stone warranted to run true. No. 3 Stone, 135 lbs. Price, \$9.75  
No. 2 Stone, 120 lbs. Price, \$9.25  
No. 1 Stone, 120 lbs. Price, \$8.50

## STEEL FRAME HAY TEDDER

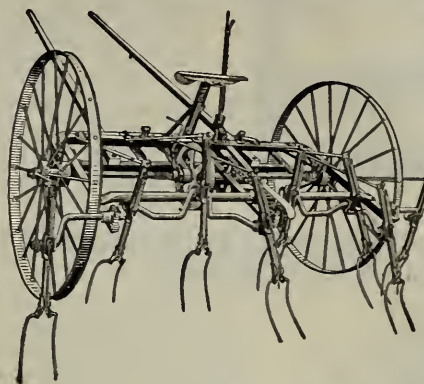


Fig. 85

This is the neatest and most substantially built steel frame hay tedder on the market. It has a solid steel axle and on stony ground we recommend this to any other tedder, as we believe a steel frame and wood wheels, if properly housed, will last longer than steel. The fork arms are made of the best hard wood. It has two levers, one throwing in and out of gear and one for raising and lowering the forks for uneven ground. It has combined pole and shafts so it can be used for either one or two horses. It is the best steel-frame hay tedder on the market, made in one size only, six forks. Price, \$85.00.

## BINDER TWINE

Put up in 5-lb. balls.

5-lb. balls, \$1.25. 50 lbs. bale, \$10.00.  
For Hay Forks and general use.

## MANILA ROPE

3/4" per lb. \$0.32  
1/2" per lb. .33  
3/8" per lb. .33 1/2  
1/4" per lb. .34

## TARRED LATH YARN



Fig. 86

For Bag String and tying corn.  
Price, 20 cts. per pound.  
Price subject to market change.

## HECLA WOOD FRAME MOUNTED GRIND-STONE



Fig. 88

The stones in these are best Nova Scotia Grit, mounted on heavy hardwood frame. Will last a life-time. It pays to buy a good article.

Price

24 x 2.....	\$17.00
24 x 3.....	\$21.00
26 x 2 1/2.....	\$23.00
26 x 3.....	\$25.00





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## INTERNATIONAL STEEL FRAME RAKE

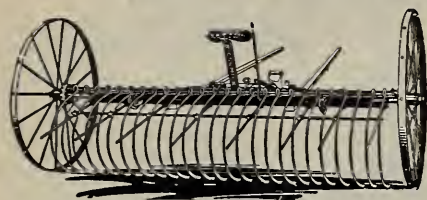


Fig. 89

This rake is made to supply the demand for an all-steel rake. We believe this is the best of the entire lot. It is a horse dump-rake. Strength and simplicity are two features of its construction. 8 FT. 25 TEETH. Price, \$50.00.

5% Cash.

## INTERNATIONAL COMBINED SIDE-DELIVERY HAY RAKE AND TEDDER

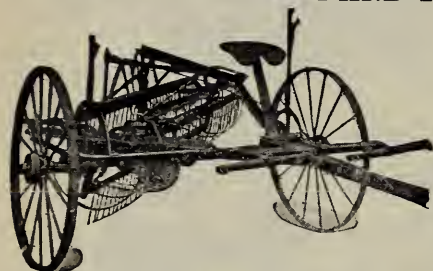


Fig. 90

The left hand delivery of the Keystone combined side delivery rake and tedder allows you to follow the mower closely and rake the hay before the leaves begin to wilt. This is practically the same construction as the regular Keystone Side Delivery Rake, which does not have the reversing mechanism for tedding that this machine has. The teeth strike the head of the hay first and

rake much cleaner, and turning the hay into a neat, airy windrow, where the air gets an equal chance at stems and leaves. Air cured hay is better than sun-dried hay.

The left-hand delivery deposits the windrow on the clean stubble and not on the unturmed swath, as in the case of the right-hand rake. Price, \$117.00. Weight, 910 lbs.

5% Cash.

## The McCormick Corn Binder

The McCormick Corn Binder Picks up Down and Tangled Corn. There is bound to be some down corn in practically every corn field. The storms and wind will blow it down and it is sometimes badly twisted and tangled. Corn in this condition is difficult to handle either by hand or by machine. The McCormick is especially adapted for that particular class of work. It cuts and binds into even sized bundles. It is equipped with elevator chains which help especially to pick up down corn. There is no waste and you always get a neat job when you use the McCormick. The binder can be set up any desired height. The distance between the gathering points on the corn binder is 22 inches. This will enable anyone to follow the row without missing a single hill.

Complete catalogue showing the McCormick line in detail will be mailed on request.

Price, \$250.00.

5% discount for cash.

## MOLINE-ADRIANCE CORN BINDER

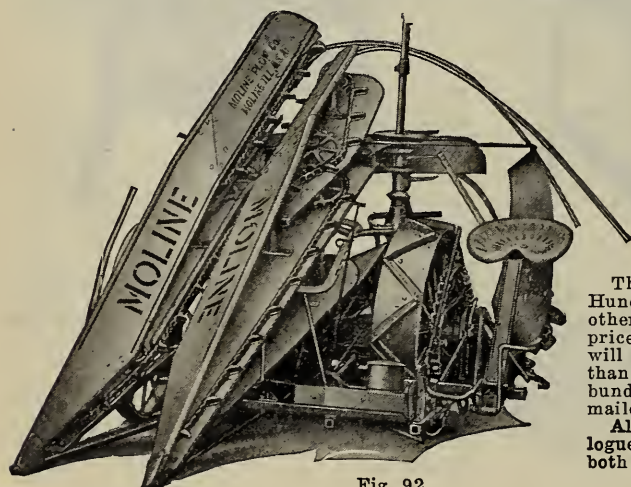
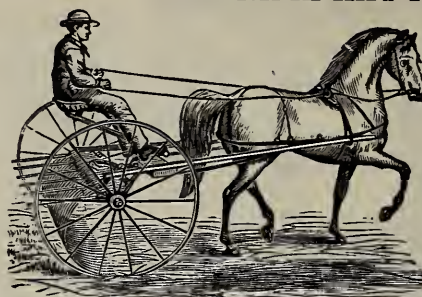


Fig. 92

The Corn Binder has made possible a more economical use of the Corn crop. Hundreds of silos were filled this past year at a less cost per ton than could otherwise be done were it not for the use of the Corn Binder. With the high price of labor one of these binders will pay for itself in a very short time. It will successfully handle tall as well as short and tangled corn and will cut faster than several teams can haul to the silo. This machine cuts the corn and binds it in bundles of suitable size for handling. Circulars describing it more fully will be mailed on application. Price, \$250.00. 5% discount for cash.

All prices in this catalogue are based on the lowest market price at time catalogue goes to the press, but they are subject to market change. 'This applies to both advance and decline.

## YANKEE HAY RAKE



24 TEETH

This is the old reliable Yankee, which needs no introduction. It is a very easy rake to operate, each tooth being independent; it will pass over large stones without breaking the teeth. It is so easy to operate that a child can handle it. Price, \$45.00.

5% Cash.

Fig. 93

## DEERING KNIFE GRINDER

It is poor economy to operate a mower with a dull knife, for it racks the machine and worries the horses. The Deering grinder is so arranged that the emery wheel sharpens two mower sections at once and preserve the correct bevel. For grinding out nicks the degree of pressure which enables the operator to control the action of the wheel and the pressure. The knife is firmly held in place by clamps and may be easily removed from section to section of the wheel; grinds any make of knife. Price, \$6.25.

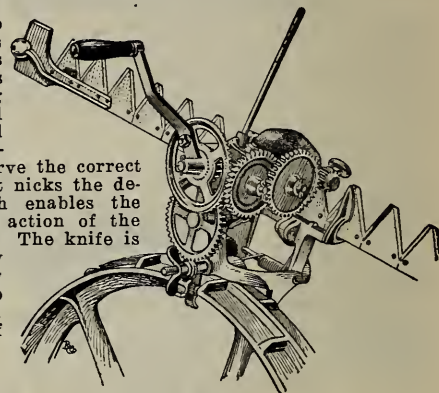


Fig. 94

## INTERNATIONAL WINDROW HAY LOADER



Fig. 95

This Loader is built principally of steel and is made to last. It will pay for itself in one season, but it will last for a life time. A Hay Loader is just as essential as a side delivery rake for the economical handling of hay. It does quicker and better work and at the same time saves labor. The Keystone Loader enables you to keep ahead of the weather. The loader can be detached from the wagon by the driver simply pulling a rope extending to the top of the load which enables him to drive to the barn, while the next team picks up the loader.

With a Mowing Machine, a Side Delivery Rake, a Hay Loader and a Myers Hay Carrier, haying is made a pleasure instead of a drudgery. We can furnish you all of these at lowest market prices. Wt. 930 lbs. 6 ft. single cylinder.

### PRICE

Less forecarriage .....	\$112.50
With forecarriage .....	\$125.00

5% discount for cash.





# EVERYBODY KNOWS ROSS' SEED GROWS



## No Barn is Complete Without One of These

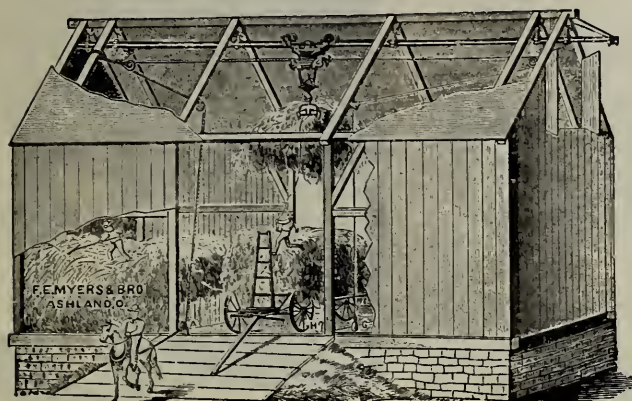


Fig. 96

### Reversible Steel Track Hay Carriers

These carriers for rod, wood or steel track are the most durable and easiest rigs to operate of any on the market. Anyone with a hammer and wrench can rig his barn as well as an expert carpenter. We furnish everything necessary for rigging any style of barn. If you will send us the length and height of your barn and style of ridge pole, we will name you price for complete job.

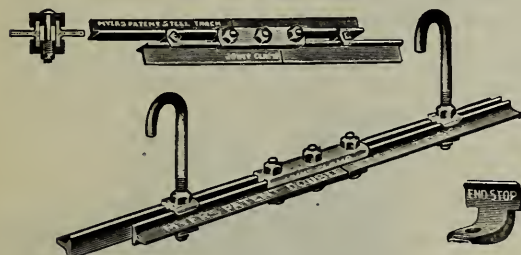


Fig. A



Fig. B



Fig. C



Fig. G

### WOOD WHEEL FARM TRUCK



Fig. 97

A handy farm truck with low steel wheels. Can be used for logging or any other farm work. This truck has extra long, well braced rear hounds and wood front hounds, fitted with a heavy cast reach plate. The axles and bolsters are made of hardwood, either oak, hard maple, or rock elm. The bolster stakes are mortised into the bolster, are ringed for tying or binding, and all are well ironed. The wheels are of the best French and Hecht with grooved tires. 9-16 in. spokes. The wood work is painted red with black stripping and green wheels. Price, 85.00.

### PRICES

#### HORSE HAY FORK FIXTURES

Fig.

Steel Grapple, each.....	\$ 1.65
C Knot Passing Pulleys, each.....	1.00
B 25 in. Double Harpoon Forks, each...	3.15
31 in. Double Harpoon Fork.....	4.00
Reversible Carrier, each.....	11.50
One Way Carrier, each (not shown).	11.50
Wood Track Carrier, each (not shown) .....	11.50
A Steel Track, per foot (not shown)....	.30
Jointed Hanger Hooks, per dozen....	2.90
Floor Hoks, each.....	.30
E Steel Hanger Hooks, per dozen.....	2.25
Malleable Iron Rafter Brackets, per dozen (not shown).....	1.00
G Six Tine Grapple Forks, each.....	15.50
Four Tine Grapple Forks, each.....	13.50
Common Pulley, each.....	.85
Rope Hitch, each (not shown).....	.60



Fig. E



Fig. F

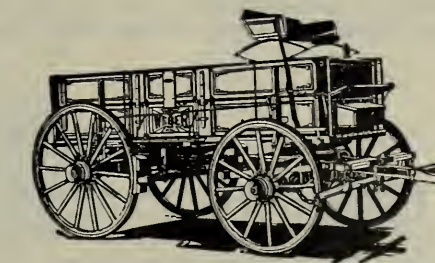


Fig. 98

### WEBBER TWO HORSE WAGON

This is the best farm wagon for the money on the market. The very best lumber is inspected at the mills before being used and all the lumber is thoroughly air dried in covered sheds and the wheels are made of white oak. In fact, all the best goods are used exclusively on all Webber wagons, no poor or cheap grade stock is used. Wheels are the life of any wagon and unless the best wheels are used the wagon will soon go to pieces. Price, \$140.00.

### WEBBER ONE HORSE WAGON

These wagons are equal in quality to the two-horse Webber wagons and the same grade material is used in their construction. It is fitted with a high backed seat and the wheels have 2 3/4 in. tires and can stand any amount of use. The high spring seat makes it convenient for all kinds of work, whether used as a farm wagon or for hauling to and from the village or city.

If you want a first-class, durable farm wagon that will stay with you for all time you make no mistake if you buy this one. Front wheels 40 in., rear wheels 48 in. Price, \$110.00.





## POULTRY SUPPLIES

### INSURABLE STANDARD CYPHER'S INCUBATORS

When you buy a Cypher's Machine, you are not making an experiment, but are buying a machine that has been tested by thousands of satisfied users from coast to coast with a reputation behind it. Being the Pioneers in the Incubator business, they have added every scientific feature to the hatching process until the Cypher's Machine is in a class by itself, the best.

	Weight	Capacity—		Price
		Duck Eggs	Hen Eggs	
No. 0 Incubator .....	91 lbs.	56	70	\$42.00
No. 1 Incubator .....	142 lbs.	112	144	51.00
No. 2 Incubator .....	195 lbs.	200	244	68.00
No. 3 Incubator .....	245 lbs.	300	390	85.00

Complete Catalogue giving description and valuable information in regard to this complete line, will be mailed free on application.

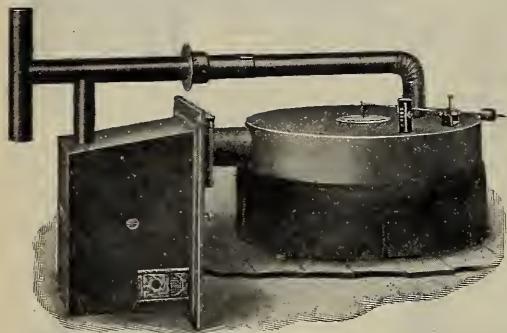


Fig. 100

### CYPHER'S ADAPTABLE HOVER

This Hover is designed to be used by anybody who wishes to supply a home-made affair, or to be used in a brooder house. Can be used in a piano box, or any old box, or in any house. It has all the features that every brooder should have. Absolutely self-regulating, which not only saves time, but SAVES CHICKS. Self-ventilating, this means that there is no impure air under the Hover, which is another means of SAVING CHICKS. It has ample heating capacity, which insures constant heat, not only for warm weather, but for cold weather as well. With a Hover of this description, SELF-REGULATING, SELF-VENTILATING, HEATING CAPACITY, DURABILITY, FIRE-PROOF, and SANITARY, makes an article which is the last word in the manufacture of Hovers. Price, \$21.50.

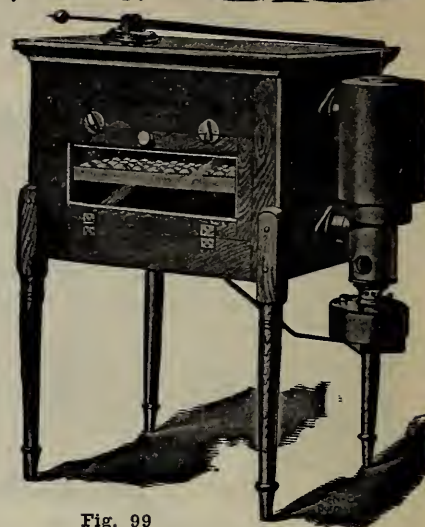


Fig. 99

### THE SIMPLICITY INCUBATOR

Claimed by the manufacturers to be the world's greatest hatcher. Tank made of copper, heated by hot water. Has a smokeless burner, big oil fount, and has an absolute uniform heat, being circular in shape, no cold corners. Has a hatching capacity of six hens with scarcely any trouble at all. We have only the greatest praise from our customers who have used these machines.

Price, 50-egg Copper Tank, \$25.00; 100-egg Copper Tank, \$36.00, and 150-egg Copper Tank, \$45.00.

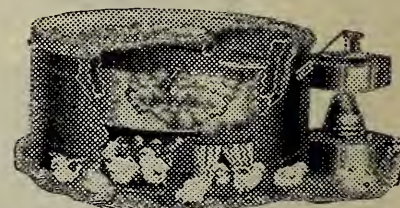


Fig. 101

### THE NEWTOWN COAL BURNING COLONY BROODER

The Newtown Coal Burning Brooder is constructed with scientific principles. Has a heavy metal facing around the fire bowl which prevents Chicks from getting burned. Has a double bottom, all parts securely bolted and cemented together. Built to last a life-time. It has a large heating surface, and large fuel capacity, and a self-feeding coal magazine. The magazine holds sufficient coal to last from twenty-four to thirty-six hours. Has a special revolving draw center grate which cannot become clinker-clogged. Has both direct and check draught, controlled by an automatic regulator, which makes an absolutely even fire. The automatic regulator is so arranged that it cannot come in contact with the Chicks, or be molested in any way. Special arrangement of the draught openings insure a constant change of air beneath the deflector.

We have two sizes, No. 7, suitable for a house 6x8 to 10x12, which can accommodate two to three hundred Chicks. No. 11, designed more especially for two room colony houses, but can be used in any single room, would take care of five hundred Chicks.

Price, No. 7 \$27.50, No. 11 \$35.00.

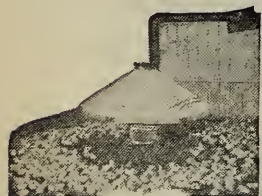


Fig. 102

### NEWTOWN OIL BURNING COLONY BROODER

It has a wickless burner. Burns kerosene oil with a steady blue flame. No smoke, no odor, and absolutely noiseless in operation. The oil is held in a glass fount, which holds one gallon. Has a sight feed dropper, and automatic regulator. The heat radiator is bolted to the top of the deflector, which is made of galvanized steel, and by its shape, radiates heat outwards and distributes it evenly over a large floor space, producing the same ideal conditions as found under the Newtown Coal Burning Colony Brooders. Easy to operate, no dirt from coal or ashes to remove. The fount will last from twenty-four to thirty-six hours. Price, \$20.00.



Fig. 103





# EVERYBODY KNOWS ROSS' SEED GROWS



## SEXTON'S DRY FEED HOPPER

OPEN

Pro-  
nounced  
to be the  
best Hop-  
per of fer-  
red. con-  
struction,  
easily op-  
erated and  
absolute-  
"Rat"  
and  
'Mouse'  
Proof.

The low-  
er cover  
is so ar-  
ranged  
that it is  
held up  
by lock-  
ing the  
top cover  
of Hop-  
per over  
same and  
by raising  
the top cover  
the lower  
cover will  
fall in place.

This Hopper is arranged to hang on the wall the desired distance from floor and never need be removed from the wall to be refilled. It is impossible to waste any feed as the pan at the bottom takes any feed that may be picked out and the last crumb can be used therefore saving any waste.

Price No. 2, 3 qt. \$1.25, 3 lbs. Price No. 1, 12 qt. \$1.65, 5 lbs. Price No. 5, 24 qt. \$2.75, 7 lbs.

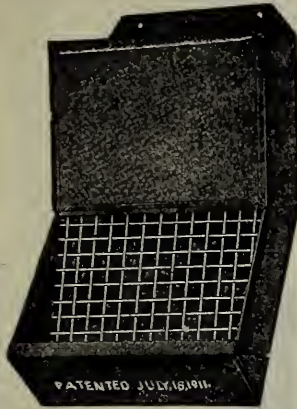


Fig. 104

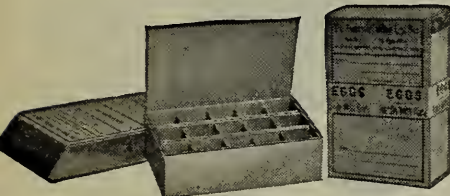


Fig. 105

The Anderson Egg Box is made of corrugated paper and has double faced corrugated paper partitions like the Eyrle, to protect each individual egg. The ability of the Anderson Egg Box to fold flat enables us to ship them in a knocked down condition, third class freight. They take but little room in storage and are very easy to set up. By sealing the box with gummed strips which we furnish, pilfering or substitution of common eggs for fancy eggs while in transit is eliminated.

1 Setting, 15 eggs, 10 lbs. per doz. \$3.50  
2 Setting, 30 eggs, 13 lbs. per doz. 4.75  
50 Egg Size, 24 lbs. per doz. 5.75  
100 Egg Size, 45 lbs. per doz. 10.50

## BEST FOR BABY CHICKS



Note  
the  
Small  
Opening

3 Pans 75c POST PAID 4 Pans \$1  
Fig. 106

## WALL FOUNT

2-qt., each, 65 cts.; 4-qt., each, 85 cts.; 8-qt., each, \$1.20.

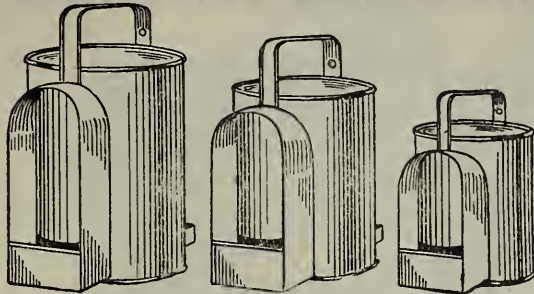


Fig. 107

## THE "EGGSELL" PARCELS POST BOX

The unique construction of this box affords the maximum protection of the eggs. None of

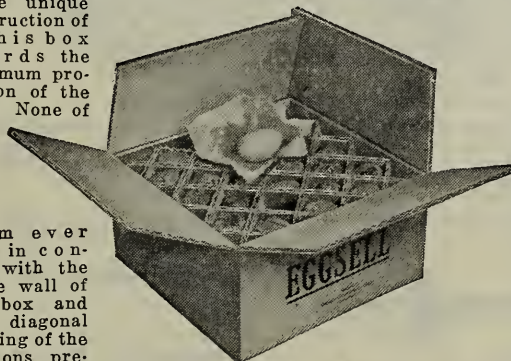


Fig. 108

them ever come in contact with the side wall of the box and the diagonal crossing of the divisions prevents the weight of the eggs above from crushing those below. If your eggs are in perfect condition when you pack them, you can rest assured they will arrive at destination without breaking. Owing to the special construction of the box, the length and width is always the same.

The boxes come complete with instructions for properly packing and sealing.

	Each	Per doz.	Weight
1 doz. size.....	\$1.15	\$3.35	9 lbs.
2 doz. size.....	.20	4.25	13 lbs.
3 doz. size.....	.30	5.25	19 lbs.
4 doz. size.....	.35	6.00	21 lbs.
6 doz. size.....	.40	7.25	27 lbs.
8 doz. size.....	.45	8.75	33 lbs.

## ERIE EGG BOX

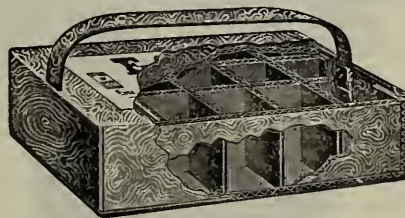


Fig. 109

Made in two sizes for shipping eggs for hatching. Box is already to put the eggs in and insert the handle. Eggs should be wrapped with soft tissue with same material for cushion at the bottom for eggs to rest on. Can be sent by mail or express. Will stand a dead weight of over 1/2 ton. Use them once and you will always use them.

PRICE.

	Holds	Weight	Per doz.
No. 1.....	15 eggs.....	10 lbs.....	\$5.50
No. 2.....	30 eggs.....	19 lbs.....	6.25

## SANITARY FEEDING TROUGH



Fig. 110

10" 35 cts., 20" 50 cts.

Automatic  
Fountain  
and Chick-  
en Feeder.  
Feeds Water,  
Grain, Grit  
or Milk.  
Absolutely  
sanitary.  
Fills quart  
or pint mason  
jar. Pan is  
hinged so  
not neces-  
sary to take  
off jar to  
fill.

Price, each,  
15 cts.



Fig. 111

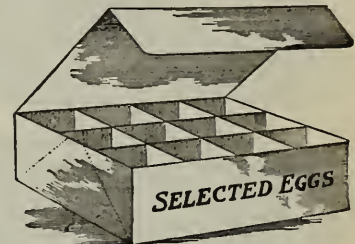


Fig. 112

Handy for retail trade.

Dozen .....	\$0.20
Bundle of 125 .....	1.65
Per 1,000 .....	11.00

## KEYSTONE BOTTOM FILLED FOUNT

We think this is one of the very best bottom filled fountains on the market. Has a patented device so that the bottom can be hinged back by unfastening the hook. Can be cleaned, filled, hooked back and also also hung up or set on the floor to be used for drinking. Comes in three sizes.



Fig. 113

1 qt.....	\$ .65
2 qt.....	.85
4 qt.....	1.15
8 qt.....	1.75

## GALVANIZED DRINKING CUP



Fig. 114

This chup is made of heavy galvanized steel, has lugs to attach it to any cage or box. Serves the purpose for watering birds at exhibitions or small chickens in poultry houses or other places. Each, 25 cts.

## ROUND BOT- TOM GRIT AND SHELL BOX.

Round bottom—a feature absolutely new to grit and shell boxes. No clogging of grit and shell in the corners. Easily the most satisfactory grit and shell box ever placed on the market. An 'A-1' winner for 75 cts. 3 lbs. No. 2 size \$1.25.

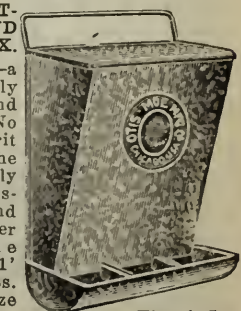


Fig. 115



## Poultry Supplies and Veterinary Instruments

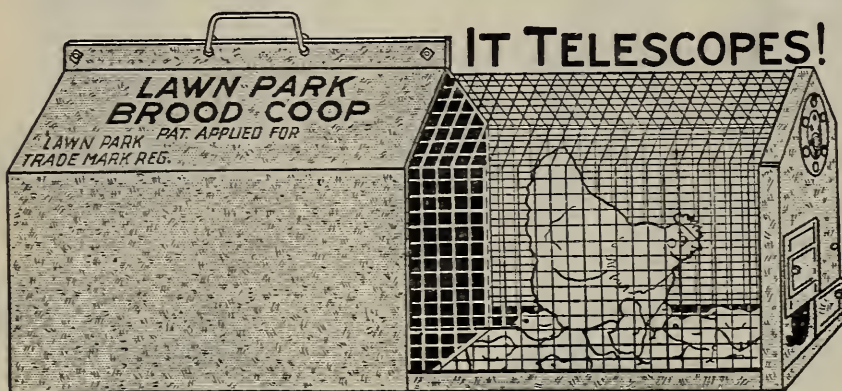


Fig. 116

### THE LAWN PARK COOP SAVES THE CHICKS. Park Extended

The wire park pulls them out like a bureau drawer and is made from heavy galvanized hardware cloth. The main coop is made from strong 28 gauge galvanized iron. Size of coop: when park is fully extended as shown in cut, it is 18 inches wide, 19½ inches high and 48 inches long. When park is closed it is 24 in. long.

A small door is provided to let small chicks only have full range as desired. Protects the chicks from hawks, rats, weazels, vermin, cold, storms, etc. Gives proper ventilation and sanitation. The park pushes in like a bureau drawer. Price, each, \$5.25. Three for \$15.00.

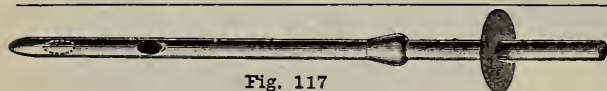


Fig. 117  
MILKING TUBES

Plain, or self retaining. Small, medium and large. Price, each, 25 cts.

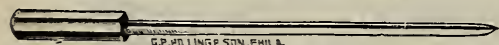


Fig. 118

**PILLING'S IMPROVED INSTRUMENT**  
For opening cows' teats. Experience is not necessary to use this instrument. Price, each, \$1.00.

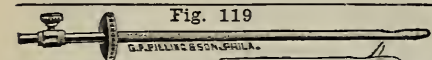


Fig. 119

**PILLING'S PLAIN TEAT SLITTER**  
Is closed for inserting and then opened for use. Price, each, \$2.00.

### THE NORWICH AUTOMATIC AIR-LOCK FOUNTAIN

The Norwich Automatic Air-Lock Fountain completely solves the problem of supplying fresh, clean water to the birds at all seasons of the year, and all poultrymen will agree with us that there is no more disagreeable task connected with poultry culture or one that is more fraught with worry and care than the question of watering.

The construction of the fountain is such that it is physically and absolutely impossible for the birds to pollute or contaminate the water supply, and the only water exposed is about a half pint in the detachable drinking cup which, as consumed by the birds, is automatically replenished. Held in vacuum the water supply is always fresh and is delivered to the cup only as required.

Price ..... \$7.50



Fig. 120

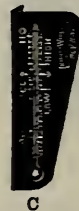
Patented Mch. 11, 1913

## IT TELESCOPES!



A Brooder Thermometer. 50 cts.

B Prairie Stats Incubator Thermometer. 75 cts.

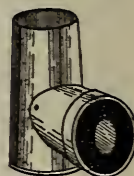


C Cypher's Incubator Thermometer. 75 cts.

D Regular Incubator Thermometer. 75 cts.



X-Ray Egg Tester, 40 cts. each. Fig. 126



Closed Pigeon Band, Rounded Edges. \$1.00 per 100. Fig. 125



Fig. 127

Cannon metal, heavy 3-in. \$1.75, postpaid. Price, copper, 2½ in., 60 cts., 3 in., 70 cts.

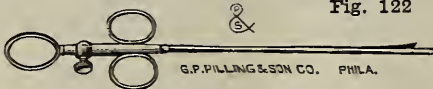


Fig. 122

3-Ring Stricture Cutter. Price, \$3.50.



Fig. 123

**CHAMPION ALUMINUM LEG BAND**  
Numbered 1-100. Price, 75 cts. per 100.



**POULTRY KILLING KNIFE** Fig. 123½  
Price, each, 65 cts.



Fig. 124

Poultrymen can double their profits by Caponizing their chicks. The operation is very simple—the instruction so full and explicit that anyone will be able to perform the operation. Capons are worth \$1.00 to \$1.50 more than cocks not Caponized. They are very much quieter in disposition.

Complete with instructions, \$4.50. In Velvet-lined case. We send book, "Complete Guide for Caponizing," with every set.

### PHILADELPHIA POULTRY MARKER

Do you keep a record of chickens? The different breeds, hatches, etc., should be kept. There is no better or quicker way than by this marker, as over 200 different marks can be made by punching web between toes. They are well made, with steel spring and cutter, nicely nickel plated. Made in two sizes. Sent postpaid on receipt of price, 35 cts. each.

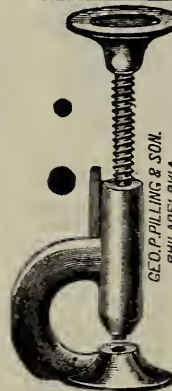


Fig. 128



No. 129

### IMPROVED KEY-STONE DE-FRACTURE

Price, complete, \$18.00.

The most powerful cutter made. Makes clean cut, No. 2 fracture.





# EVERYBODY KNOWS ROSS' SEED GROWS

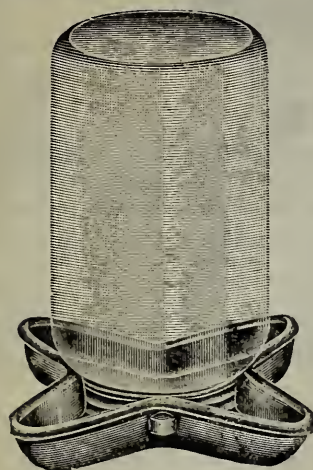


Fig. 130

## STAR CHICK FEEDER AND FOUNT

Fit any mason jar. Price, each, 15 cts.



Fig. 131

## DROP BOTTOM FOUNT

Fount is filled by inverting and bringing back bottom. Perfectly sanitary.

4 qt., 30 cts. each; 8 qt., \$1.60 each.

## NATIONAL OAT SPROUTER

It pays to feed green stuff in winter

With this mechanical device green feed can be given to the poultry at all times. The tray contains five sprouting pans with a bottom drip pan. By feeding one pan full of sprouted oats each day and replacing this same pan with a fresh supply of oats, the new shoots from one to four inches high can be supplied to the fowls daily, giving a never failin gsupply of green feed.

Indorsed by all the poultry raisers and egg producers. Price \$7.50.

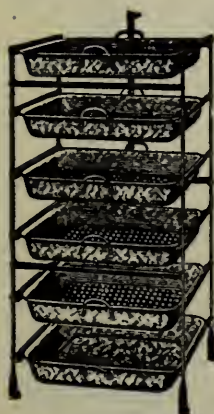


Fig. 132

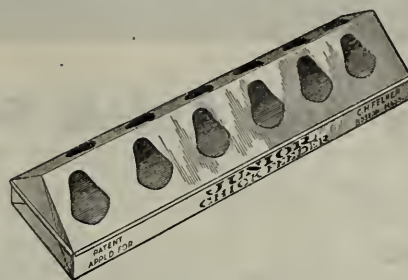


Fig. 133

## JUNIOR CHICK FEEDER

Price, each, 40 cts.



Fig. 134

## PEERLESS FOUNT

Take off bottom to fill.

1 qt. 45 cts., 5 qts. \$1.00, 10 qts. \$1.35.

## ROSSCO SLATE COVERED SHINGLES



Fig. 135

Do not use common wood shingles when you can buy fire-proof slate covered shingles at the same price. Old dry wood shingles are the most dangerous things that you can have on your place. Sparks from fires and fire-works of any kind have destroyed thousands of buildings which would have been saved if they had been covered with fire-proof shingles. These shingles are made from similar material to our Rossco Roofing, but are slate covered. They come in two colors, red and green. Using half and half, you make a much better looking building, which lasts longer and is also fire-proof against sparks. Cheap enough for any barn and good enough for any house. Samples mailed on request.

Note: One thousand will cover 100 square feet, laid 4 in. to the weather the same as you would lay common wooden shingles.

Slate Covered, Red or Green. Price, per thousand, \$6.75.

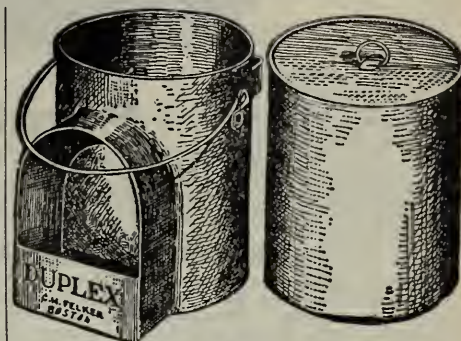


Fig. 136  
THE DUPLEX

A double fount that keeps water pure.

4 qt., Price, each.....\$1.25  
8 qt., Price, each.....1.50



Fig. 137

## ROUND BABY CHICK FEEDERS

Fits any mason jar.

8 hole, each.....\$0.25  
12 hole, each......45

## THE NORWICH AUTOMATIC EXERCISER AND FEEDER



Awarded First  
Prize Wherever  
Exhibited.

Fig. 138

The Norwich Automatic Exercises and Feder, as its name implies, is an ingenious automatic machine for feeding and exercising.

PRICE LIST—No. 1, 8 Quart Hopper, 13 lbs., \$5.00; No. 2, 14 Quart Hopper, 15 lbs., \$5.50; No. 3, 20 Quart Hopper, 20 lbs., \$6.50; No. 4, 32 Quart Hopper, 27 lbs., \$7.50.





## Poultry and Chick Feeds

The object of scientific feeding of poultry and chicks is to start the chicks right and then follow up this course till the fowl produce eggs, and then to keep them at it.

Chicks when first hatched should have nothing but Grit and pure water for 36 to 48 hours, and after that the very best thing is finely chopped boiled eggs, or the sterile eggs from the incubator. Then after that coarser Grains can be fed. Conkey's Buttermilk Starting Food one of the best.

### WYANDOTTE CHICK FOOD

After the chicks are a few days old the best food in the world is our specially prepared Wyandotte Chick Food made from the choicest Grains. A scientific feed which contains everything which the little chick should have except drinking water and a little Grit.

We have manufactured this Food for many years, and it will be better than ever the present year. Some of the largest Poultry raisers in the state use the Wyandotte Chick Food, and nothing else. Mixed in the right proportions to insure strong, healthy and lively Chicks.

Price: 25-lb. bag, \$1.25; 50-lb. bag, \$2.00; 100-lb. bag, \$3.75. Send for special circular.

**WYANDOTTE CHICK GROWER.** This is designed to follow Wyandotte Chick food. It contains practically the same properties only larger, and is just the food to feed chicks after they have reached the age where they do not need a little chick food. This will carry them through to maturity, without any other grain. Skimmed milk (if it can be had) and beef scraps should also be fed, and plenty of fresh, clean water. 100 lbs. \$3.75.

**WYANDOTTE SCRATCH FOOD.** This can be used to follow Wyandotte Chick Grower, either as an every day food or more especially as an egg producer. It consists principally of whole grains, such as wheat, oats, barley, corn, buckwheat, sunflower, Kaffir corn, charcoal and oil cake. Beef scraps can not be used in Scratch Food because they will crumble and go into flour and are lost. We therefore use the oil cake, as it contains nearly as much protein as Beef Scraps. Feeding Wyandotte Scratch Food regularly will produce bone, muscle, and eggs, especially the latter. It contains no oyster shells or grit. No waste material. The fowls will always find something tempting for which to scratch. A small amount of this thrown into the litter after they have gone to roost at night will start them to work early in the morning. Keep the hens busy with Wyandotte Feeds and you will not lack eggs. Simply because a feed looks good to the naked eye is no sign it will produce eggs.

Price, 100-lb. bag, \$3.00. Will allow 10 cts. each for Scratch Feed bags returned.

### Conkey's Buttermilk Starting Feed for Chicks

#### GUARANTEED ANALYSIS

Crude Protein .....	12.00%
Crude Fibre .....	4.00%
Crude Fat .....	3.00%
Nitrogen Free Extract.....	56%
Carbohydrates .....	60.00%

#### DIRECTIONS FOR FEEDING

Chicks should have pure drinking water with chill removed and fine grit from the start, but no feed until 148 hours old. Then feed Conkey's Buttermilk Starting Feed dry just as it comes from the bag, giving them very little for the first few feeds, placing it on paper feeding boards so to give every chick that desires feed a chance to eat, leaving it before chicks for a few minutes, then removing whatever feed is left. After first few feeds, begin feeding four times each day, continuing the method until chicks are at least six days old. This method of light feeding on Conkey's Buttermilk Feed makes the digestive organs grow strong and enables the chick to live up elements of the egg that frequently are not fully absorbed during incubation.

Price, \$7.50 per 100 lbs.

A ready prepared feed for baby chicks composed of hulled oats, wheat middlings, wheat, corn meal, corn feed meal, bone, and buttermilk. It contains all the elements of growth for the perfect development of baby chicks, ducks, turkeys and all young fowls.

2½ lbs., each, 30 cts.; 5 lbs., each, 50 cts.; 10 lbs., each, 95 cts.; 25 lbs. each, \$2.25; 100 lbs., each, \$7.50.

**WYANDOTTE MASH FOOD.** In extreme cold weather we recommend feeding a little hot mash just before night. At other times during the cold weather keep Wyandotte Mash Food before your fowls at all times. This can be best done by using the Sexton Dry Food Hopper. There is absolutely no waste in using one of these feeders and there is no waste material used in mixing Wyandotte Mash Food. This is sold under a guarantee to contain 16 per cent. protein, 3½ per cent. fat, 10 per cent. fiber. It contains those grains that are high in egg making qualities. You are safe in buying food with the name Wyandotte, as we are the sole manufacturers.

Price, 100 lbs., \$3.15.

### SEMI-SOLID BUTTERMILK

One hundred per cent. pure adulterated Buttermilk with nothing added to it, only the surplus water removed. It is sterilized and keeps always. For Baby Chicks, dilute four to eight times, from the time they are hatched. For growing stock, can be used as for chicks or with the wet mash. For laying and breeding stock, three to four lbs. per day, per 100 birds, either as a drink or a wet mash. Takes

the place of Beef Scraps and is a wonderful stimulator for chicks and growing stock and a wonderful egg producer for hens. Equally good for pigs and calves. Price per lb. 12 cts.

**KAFFIR CORN.** A good food for hens, chickens or pigeons. Market price.

**DRY GROUND FISH.** For poultry. This is a great egg-producer, and takes the place of beef scraps. 100 lbs. \$5.00.

**WYANDOTTE BONE AND MEAT SCRAPS.** These scraps are ground fresh for us, and do not contain any oyster shell or tankage, but are good fresh bone and meat. 100 lbs. \$4.50.

**WYANDOTTE DAIRYMAN'S CLEANER.** An absolute necessity in every dairy. A powder, each to use, and recommended by everyone that ever tried it. Price 5-lb. bag 45 cts., 80-lb. keg \$6.10, 280-lb. barrel \$14.30.

### WYANDOTTE EGG PRESERVATIVE

Enjoy summer prices of eggs in winter. A harmless preparation in granulated form, easy to handle and economical to use. Will keep eggs 2 to 3 years in as good condition as when packed if directions are followed carefully. One quart will make four gallons of solution which is much superior to waterglass (Silicate of Soda). Price 35 cts., shipping weight 2½ lbs.

**SHREDDED ALFALFA.** This is one of the best food for all kinds of poultry and hogs. It is alfalfa, pure as can be had, finely ground, and should be mixed with other kinds of feed, and being very light, it makes a very nutritive food and is also an egg-producer. 100 lbs. \$3.00.

**POULTRY GRIT.** Cracked in three sizes. No. 2 for poultry; No. 3 for pigeons; No. 4 for small chicks. 100 lbs. \$1.75.

**GRANULATED BONE.**—Fresh cracked bone, without any meat, will keep for any length of time. Should always be kept in a box where the hens can get to it. 100 lbs. \$4.50.

**CRUSHED OYSTER SHELL.** For poultry or chicks. 100 lbs., \$1.75.

**KOW-CURE.** Prevents an deures abortion and barrenness. Increases the flow of milk. It is for cows only. 70 cts., weight 2 lbs. \$1.40, weight 4 lbs.

**COW RELIEF.** Cures caked bags and sore teats. Should be in every stable. 75 cts. and \$1.50.

**CALF CORDIAL.** Sure cure for scours and other similar complaints. 75 cts.

**PIGEON FOOD.** A mixture of Kaffir corn, wheat, etc. Lb. 10 cts., 100 lbs. \$5.50.

**FINE CRACKED BONE.** For small chicks; made from best selected white bones, finely cracked and screened. 8 lbs. 60 cts., 50 lbs. \$2.60, 100 lbs. \$5.00.

**EDIBLE BONE MEAL.** For cattle. 10 lbs. 60 cts., 100 lbs. \$5.00.

### WATER GLASS

A transparent liquid for preserving eggs. Comes in pints, quarts and gallons. Pint can mixed with 11 pints of boiled water will preserve from 6 to 10 dozen eggs.

This preparation is used by many in preference to the dry powder. The preservative will preserve eggs perfectly.

Price: 1 pt. 25 cts., 1 qt. 40 cts., 1 gal. 90 cts.

### FLY-A-WAY

This is an almost transparent liquid used for keeping flies away from cattle, horses and all stock, also from stables. Has no tar substances to discolor light colored animals and wood work and does not leave a gummy substance after using.

Price, 1 gal. \$1.50.

### DOG BREAD

Dr. Daniels' Dog Bread in biscuit form. All dogs howl for it.

Price, 1 lb. 15 cts.

**CONKEY'S ROUP CURE.** Cures roup in all its forms. It is simply put in drinking water and the chicken takes its own medicine. 30c., 60 cts. and \$1.20.

**CONKEY'S LICE POWDER.** Kills Lice and other pests on poultry, horses and cattle. 30 cts. and 60 cts.

**LAMBERT'S DEATH TO LICE.** As its name implies, it is sure death to lice on hens and chickens. It is harmless to human and animal life. Should be used on setting hens; it will not injure the eggs or harm the youngest chick. 15-oz. size 25 cts., 48-oz. size 50 cts., 100-oz. size \$1.00.

**DR. HESS' INSTANT LOUSE KILLER.** Kills lice. Put up in round cans with perforated top ready for use in one and three pound packages. The large size is the cheaper. You get three pounds for 60 cts., and, with the handle, it is just as convenient as the smaller size. Large size 60 cts., weight 5 lbs.; small size, 30 cts.

**FRATT'S LOUSE KILLER.** Put up in one pound size. It kills the lice. 30 cts.





Fig. 139

A **SUBSTANTIAL FENCE** plays an important part to the profitable side of farming and the neatness in appearance of a well put up wire fence adds more than double the cost of the fence to the price of the farm. They are to the farm in general what paint is to the buildings. **PUT UP FENCES** and let the hogs and other animals go after the waste places and turn into profit what would otherwise go to waste.

We carry in stock the following styles of American Field Fence:

	20 rod roll	10 rod roll
1047 x 12	\$13.00	\$7.25
1047 x 6	18.75	10.00
845 x 12	12.00	6.25
635 x 12	9.75	5.25
832 x 6	15.25	8.00

Our general purpose farm fence is the 1047 x 12, and the dimensions contained in the above figures are explained as follows: Figure 10 represents the number of horizontal wires, 47 represents the height in inches and 12 represents the distance apart of the upright bars. The top bars are No. 9 wire, the bottom bar No. 10, and the intermediate bars and stays No. 11 wire. This makes an ideal up-to-date farm fence, strong enough for any use. It is heavily galvanized and will last for years and is much more sightly than the old ramshackle stone walls or wooden fences. When this fence is used in connection with steel posts, all of the weeds, etc., can be burned right up to the fence, which is another great advantage in keeping the field entirely free from refuse matter.

The No. 832 x 6 is our Hog Fence. We doubt if this can be surpassed for fencing in the hog pen.

### American Steel Fence Posts

Too much cannot be said of the American Steel Fence Post. While the first cost of the steel post and the wood post is practically the same, the steel post can be set in about 5 minutes, while the wood post takes surely a half hour. With the American Steel Post the fence line can be burned off every year, thus getting rid of insects, weeds and rubbish. The clean farm grows the best and biggest crops and with the least labor and expense.

We carry a good stock, but the following are the best sellers:

7½ ft., No. 16, 80 cts. each.

6½ ft., No. 16, 70 cts. each.

Send for complete fence catalogue giving all details.

### AMERICAN POULTRY FENCE

Made of No. 11 and No. 14 Wire. This fence is much stronger than any other fence sold as a poultry fence, the Top and Bottom Bars No. 11 Galvanized Steel Wire, Intermediate Bars No. 13 Galvanized Steel Wire, Stay Wires No. 14 Galvanized Steel Wire.

At the bottom are four spaces of 1½ inches each; the higher spaces graduated to 5 inches.

This fence combines the same features entering into the manufacture of the American Farm Fence, viz.: the Hinge Joint, Tension Curve, amply providing for connection and expansion, and its adaptability to uneven ground, without cutting or mutilating the fence.

In comparing the price of this fence with other nettings don't forget that you are getting a fence as strong as the regular stock fence.



Fig. 140

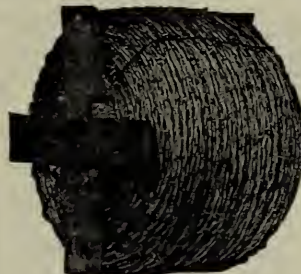


Fig. 141

### BARB WIRE

2 and 4 point. Plain Twist Wire with out barbs. Ribbon Wire, Staples for putting up.

Can furnish the above in any quantity in full rolls at lowest market prices. The following prices we hope to maintain throughout the spring season, but on account of the uncertainty of the market, all prices on this page are subject to market changes. We have this barb wire on 80-rod spools. Either two or four point, regular or thick set, \$5.65 per spool (80 rods).

Ribbon Wire, per lb. .... \$0.09  
Staples, per lb. .... .10



Fig. 142



Fig. 143

Design No.	No. of Bars	Height	Weight	Price 10 rods	Price 20 rods
2158	21	58 in.	129 lbs.	\$9.15	\$17.50
2053	20	53 in.	122 lbs.	8.75	16.85
1948	19	48 in.	115 lbs.	8.25	16.00

### UNIVERSAL POST HOLE DIGGER

Will pay for itself or one dozen is you use wooden posts.  
No. 14' 10" \$2.25  
No. 25' 10" 2.50



Fig. 144





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## GALVANIZED POULTRY NETTING

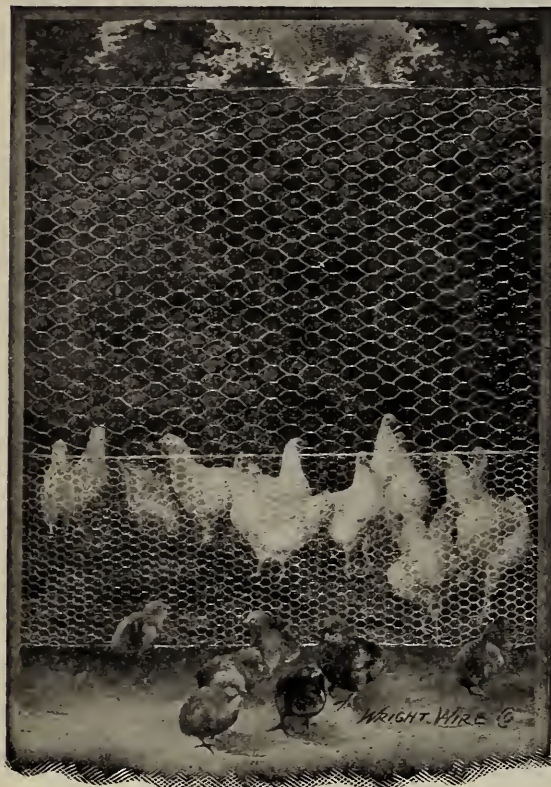


Fig. 145

Combination 1 in. and 2 in. Mesh Netting. A popular method of erecting Poultry Netting for yards where small chickens are to be kept on one side and fowls on the other side. Erect a strip 18 or 24 inches wide of 1-inch Mesh Chicken Netting at the bottom and a strip 36 or 48 inches wide of 2 inch Mesh Poultry Netting above the finer mesh, as illustrated in cut.

### PRICE FOR ROLL OF 150 RUNNING FEET

No. 19 Gauge Wire	No. 20 Gauge Wire
1 ft. 2 in. mesh.. \$ 1.90	1 ft. 2 in. mesh.. \$ 1.65
1½ ft. 2 in. mesh.. 2.80	1½ ft. 2 in. mesh.. 2.35
2 ft. 2 in. mesh.. 3.55	2 ft. 2 in. mesh.. 2.80
2½ ft. 2 in. mesh.. 4.25	2½ ft. 2 in. mesh.. 3.60
3 ft. 2 in. mesh.. 4.65	3 ft. 2 in. mesh.. 4.80
4 ft. 2 in. mesh.. 6.30	4 ft. 2 in. mesh.. 5.50
5 ft. 2 in. mesh.. 7.70	5 ft. 2 in. mesh.. 6.75
6 ft. 2 in. mesh.. 8.95	6 ft. 2 in. mesh.. 8.00
1 ft. 1 in. mesh.. 4.95	1 ft. 1 in. mesh.. 3.85
1½ ft. 1 in. mesh.. 6.75	1½ ft. 1 in. mesh.. 5.50
2 ft. 1 in. mesh.. 8.80	2 ft. 1 in. mesh.. 7.70
2½ ft. 1 in. mesh.. 9.90	2½ ft. 1 in. mesh.. 8.80
3 ft. 1 in. mesh.. 11.00	3 ft. 1 in. mesh.. 9.90

## THE AMERICAN FENCE TOOL

The best, and most useful all around fence tool. It is a hammer, staple and nail-puller, wire cutter, and splicing tongs combined. The tool is drop forged from tool-steel, highly and skillfully tempered. We guarantee each tool.



Fig. 146

Weight 3 lbs. Price, \$1.75 each.

## Cyclone Trellis

A most attractive and practical flower and vine trellis. Low priced and durable; the cost is trifling.



Fig. 147

Single Trellis

## EXCELSIOR POULTRY FENCE

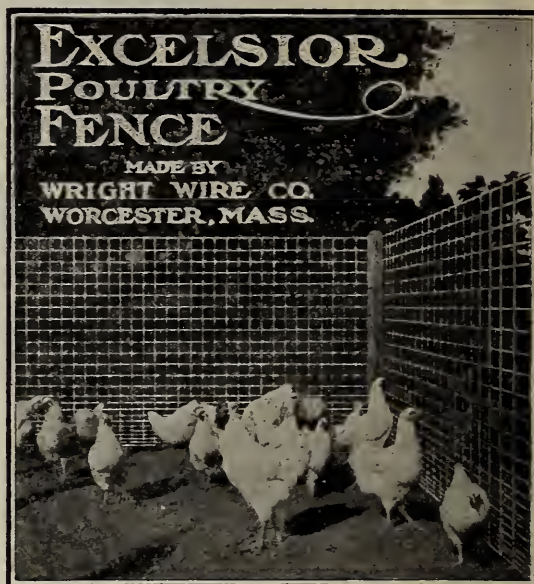


Fig. 148

weight, 3 lbs. Price, \$1.75.

Graduated from 1¼ in. to 4 ins. for chicks and also poultry. Made of No. 19 wire.

Height Inches	Number of horizontal wires	Approximate lbs. per 10-rod roll	Price per roll
48	19	33	\$4.65
60	22	38	5.50
72	25	43	6.10

For light stock fence made of No. 17 wire with No. 14 selvage.

48 in.	19	49	\$6.25
60 in.	22	56	7.25
72 in.	25	67	7.85

## PERFECTION FLOWER BED BORDER

Fits and shapely or size of flowerbed. No posts required. Bottom left straight to be inserted in the ground. Taken up in Fall and used from year to year. 16-inch height, 13 cts. per foot, 22-in. height, 15 cts. per foot.



Fig. 149



**DR. HESS' STOCK TONIC.** Milk makes the money, but Dr. Hess' stock tonic makes the milk. We guarantee Dr. Hess' Stock Tonic to increase the bone, muscle and milk producing value of your hay, grain, etc., sufficient to cover its cost many times over, besides keeping animals free from disease. 2 lb. pkg. 30 cts., 7½ lb. sack 60 cts., 12 lb. sack \$1.25, 25 lb. pail \$2.25, 100-lb. sack \$7.50.

**DR. HESS' POULTRY PAN-A-CE-A.** 1½-lb. pkg. 30 cts., 5-lb. pkg. 75 cts., 12-lb. pkg. \$1.50, 25-lb. pail \$3.00.

## PRATT'S POULTRY AND CATTLE FOOD.

We have sold Pratt's Food for several years and always found it reliable and can recommend it with confidence to our customers. To get the best results it should be fed regularly. It keeps the poultry in good condition, and is indispensable in the stable. It keeps cows and horses in the pink of condition. Poultry Food, small size, 30 cts., large size, 60 cts., 12-lb. pails, \$1.75, 25-lb. pails \$3.00.



TRADE MARK REGISTERED



# Certain-teed



Fig. 150

*Certain-teed* endures under all conditions. It is weatherproof, waterproof, spark proof and fire retarding. Rust cannot affect it. The heat of the sun cannot melt it or cause it to run. It is not affected by gases, acids, fumes, smoke, etc. These qualities have made *Certain-teed* the choice everywhere

for factories, warehouses, stores, hotels, garages, office buildings, farm buildings, and out-buildings.

In shingles, red or green, it make an artistic roof for residences

*Certain-teed* Roofing is guaranteed 5, 10 or 15 years, according to thickness. Sold by good dealers everywhere.

**Certain-teed Products Corporation**  
Offices in the Principal Cities of America

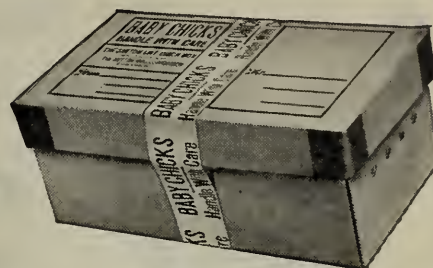


Fig. 152

## LIVE CHICK BOX

Made from best grade of corrugated paper. For shipment it is folded flat, but can be easily set up and made ready for use.

The use of this box has made it possible to make long distance shipments of live chicks with safety.

	Weight per doz.	Size.	Price doz.
25 Chicks....	6½ lbs.	13x 7x5	\$3.25
50 Chicks....	14 lbs.	14x13x5	4.50
100 Chicks....	22 lbs.	26x14x5	6.25

We are now shipping day old chicks, postpaid, from the hatchers direct to our customers all over New England. Chicks should not be fed for 36 hours from the time they are hatched. By that time we can put them in the hands of our customers.

## CERTAIN-TEED TALC SURFACED

Put up in rolls of 108 sq. ft. Nails and cement inside the roll. Each roll covers 100 sq. ft., the extra allows for laps and joints.

	Price
1 Ply Light, about 35 lbs., 32 in. high.....	\$2.75
2 Ply Medium, about 45 lbs., 32 in. high.....	3.40
3 Ply Heavy, about 55 lbs., 32 in. high.....	4.00

## GUARD ROOFING

This roofing is offered as a good average quality product. It will give good service on the roof. Where the highest quality roofing is not necessary this product is recommended.

1 Ply Light, about 35 lbs., 32 in. high.....	\$1.75
2 Ply Medium, about 45 lbs., 32 in. high.....	2.25
3 Ply Heavy, 55 lbs., 32 in. high.....	3.00



Fig. 151

## BABY CHICKS

Why bother to set fussy old hens or run an incubator with all its troubles when all the regular breeds of chicks can be supplied promptly?

Beginning March 15 we will have on hand all the following breeds:

RHODE ISLAND REDS.

WHITE ROCKS.

BARRED ROCKS.

WHITE WYANDOTTES.

Prices—100.....	\$28.00
50.....	14.50
25.....	7.50
12.....	4.00

Above prices are f. o. b. Worcester or delivered by parcel post from the hatchers. The breeds mentioned are what we will carry in stock at our store, but we can furnish almost any others from the hatchers. Let us book your order now. How many?

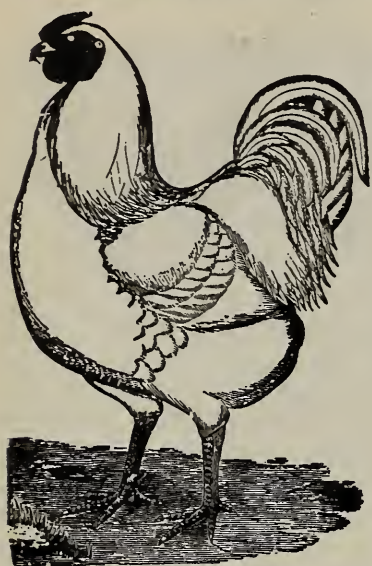
There should be more chickens raised this year than ever before. Prospects never looked brighter.





## MORE AND BETTER POULTRY

should be the Slogan for 1921, but more poultry, unless it is pure bred, will not help the situation. It costs no more to keep good poultry than it does scrubs. This is as true with poultry as it is with pure bred cattle.



White Wyandotte

### Eggs for Setting from our own Pens



A Pair of Buttercup Fowls

We can furnish eggs for setting of White Wyandottes, Rhode Island Reds, Sicilian Buttercups, White Pekin Ducks and White Leghorns.

The White Wyandottes is the standard utility fowl for all purposes. They are good layers, make the very best of poultry for the table, always dressing plump, whether old or young.

Next to this breed comes the Rhode Island Red, which is also good for both poultry and eggs.

One of the latest breeds to come into the market is the Sicilian Buttercups. They are called the 300-egg bird. The name Buttercup was given them because of the peculiar shape of the comb. The male birds are mahogany red, similar in shape to the Leghorns, while the females are a light yellow with black spots on the end of each feather, making a very showy and attractive bird, but unlike the Leghorns they are very docile and like company. They are non-setters and the pullets commence laying when about four months old.

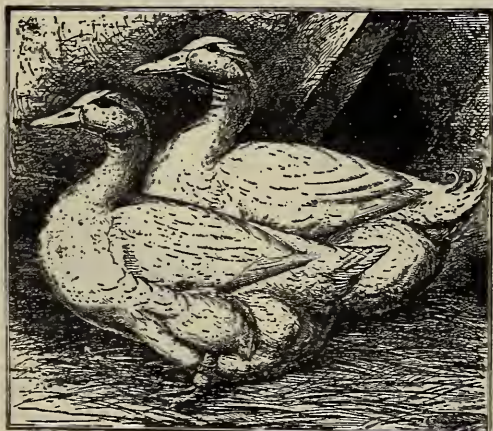
If you want meat for the table, you can no doubt have Roast Duck in the shortest time and at the least expense. White Pekin Ducklings usually weigh from four to five pounds when ten weeks old. They grow like weeds, do not scratch and can be raised in confinement.

#### PRICE LIST

	Per Setting	Two Settings
White Wyandotte Eggs from Best Pen.....15 eggs	\$3.00	\$5.50
White Wyandotte Eggs from Utility Pen....15 eggs	2.50	4.50
Rhode Island Red Eggs.....15 eggs	3.00	5.50
White Leghorns .....15 eggs	2.00	
Buttercup Eggs .....15 eggs	5.00	9.00
White Pekin Duck Eggs.....15 eggs	3.00	5.5

So many elements enter into the shipping of eggs that while we exercise great care in packing, we cannot guarantee the hatch, but on positive proof, customers who do not get satisfactory hatch on account of unfertile eggs, we will duplicate the order at one-half catalogue price.

Before receipting for eggs, examine the package carefully to detect if possible any breakage.



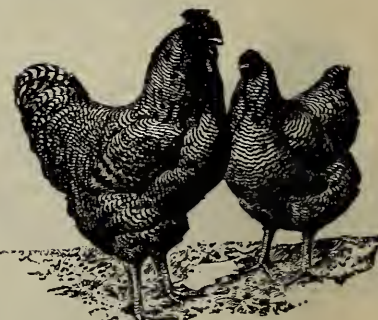
Pair White Pekin Ducks

In addition to the kinds we are keeping ourselves, we have made arrangements with one of the largest and most successful breeders in the Middle West to supply us with live poultry, ducks, turkeys, geese and guineafowl and also eggs for hatching. There isn't one laying hen now where there ought to be ten. This spells eggs at a good price for another year. With low priced grain, now is your time to start and get in before the rush. In normal times, there is never enough hens to supply the eggs.

We expect to supply the following breeds: WYANDOTTES, White Silver Laced, Buff, Golden and Partridge. PLYMOUTH ROCKS, White and Barred. PATRIDGE COCHINS, BUFF-COCHINS, LIGHT BRAHMAS, ORPINGTONS, White and Buff. RHODE ISLAND REDS, Leghorns, White, Buff, Brown, all in single and double comb. SPANGLED HAMBURGERS, MINORCAS, COCHIN BANTAMS, Buff, White and Black.

GEESE, Toulouse, White Embden, White China, Gray African. DUCKS, White, Mammoth Pekin, Indian Runner (all colors), Muscovy and Rouen. TURKEYS, all colors. GUINEA FOWLS, White and Pearl.

For Baby Chicks See Page 97.



Pair of Barred Rocks

Send for special price list giving complete description.





# EVERYBODY KNOWS ROSS' SEED GROWS



**A Man  
You Can Hire**

## THE HINMAN MILKER MACHINE



The machine that saves time and reduces the cost of producing milk. One of these machines with one man will do the work of three men. It is the one helper that you know will stay with you and that will be on the job Monday morning. It can be operated by any kind of power. **Fig. 156**

Hinman Milker Machines have been in successful operation (and in some of the most noted stables at that) for several years. What this machine has done for others it will do for you.



**Fig.**

The Hinman will soon pay for itself whether you have a small or large herd. You cannot afford to be without one.

If interested drop us a line and if within 25 miles we will have our man call and look your stable over and quote you price on the complete outfit all installed ready for use.

## B. K. SOLUTION

The Liquid Sterilizer used for Sterilizing Cans, Bottles, Separators, Milking Machines and Churns, also for Contagious Abortion, Calves and Cows, Hogs and Poultry. Sold on an absolute Guarantee or Money Refunded.

1 qt. ....\$1.25

1 gal. ....\$3.00

## CAST IRON FEED BOX



**Fig. 153**

Price, \$3.50. Weight, 31 lbs.



**Fig. 154**

## Star Automatic Drinking Fountain

Can be used in connection with either wood or metal stanchions. The drinking cup for the up-to-date stable. These come drilled and threaded for one inch pipe and are furnished with valve controlled by the animal.

Price, \$4.60 each.

## Buckley's Patent Watering Device for Watering Stock in Stables



**Fig. 155**

Water where cattle can get it at any time during the day or night is a necessity in every first-class stable. With the Buckley Basins the water is always there and at the proper temperature. These basins are furnished both with and without valve. The valve is arranged at the bottom to allow the water to flow in from the supply tank and closes when filled which prevents sediment from getting into the pipe. Price, without valve, \$2.25 each. \$25.00 per doz. Weight 18 lbs.



**Fig. 157**

## Cattle and Horse Salt Feeders

This method of feeding pure salt to stock has been adopted in the largest stables and grows in favor daily. Salt brick, 25 cts. each; weight, 5 lbs. each; \$2.50 per doz. Salt brick holders, 40 cts. Weight, 3 lbs.

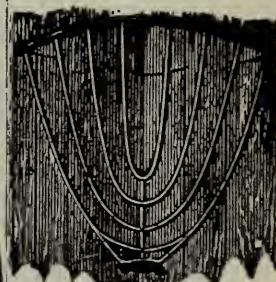
## ROTO-SALT

25 cts. Weight,  
5 lbs. Doz.  
\$2.50. Holder  
50 cts. Weight  
3 lbs.



**Fig. 158**

## CORNER RACK



**Fig. 160**

Price, cast-iron, \$3.50

## Warriner's Patent Chain Cattle Stanchions



**Fig. 159**

These Fasteners are in use in a large number of stables and give universal satisfaction. The cut shows the device; a short chain secures the fastener to the top beam so that it suspends 1½ inches clear of the bottom sill. It is also fastened to the bottom sill by a chain to allow it a free and easy motion and rotation, giving the cattle freedom, yet be securely fastened. It keeps them clean and gives liberty of action. Price, each, \$2.60. Doz. lots, \$30.00.

## THE STAR STEEL STANCHION

The cut above shows the Star Steel Stanchion which has given the best of satisfaction. Absolutely sanitary, easily hitched and unhitched and very strong. Price, plain steel, \$4.35.



**Fig. 161**





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

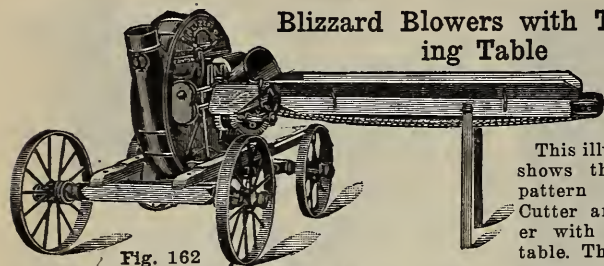


Fig. 162

Wheel Mounted Truck \$54.00

chains on which are riveted hardwood slats. These chains are propelled and ravel over sprocket wheels secured to a separate shaft directly in the rear of the lower feed roll. The bearings on this shaft are made adjustable, to take up the wear on the drive. The lower feed roll and the traveling table are driven from the same shaft, each by its own sprocket wheel and chain. This device reduces the strain on the drive chain to a large extent. This machine can be operated successfully with a smaller amount of power than any similar cutter on the market.

Length of knives	Capacity	Power H. P.	Speed	Weight	Price with 30 ft. Pipe and Angle Deflectors
L 9-11½ in.	4-6 tons	3½-5	900-1100	700	\$212.20
L11-14 in.	5-8 tons	4-7	800-1050	1100	251.20
M13-16 in.	7-12 tons	7-10	650-1000	1300	321.50

Extra pipe for above in 2, 4 and 10 ft. lengths at 85 cts. per foot. Angle joints, \$1.10 each.

## THE HARDER SILO

The American dairyman is too well informed to longer doubt that the profit of his business is dependent largely upon the contents of a silo, for he recognizes the fact that in order to make good he must use the returns from his farm.

The Harder silo stands in a class by itself and is the only one recommended by the state and dairy authorities the country over. The rigid, strong door frame not only adds to the stability of the silo, but affords absolutely tight doors, which is necessary for all silage and a continuous ladder. This ladder feature is a valuable addition to the Harder Silo and is not used in connection with any other. It is safe, strong, rigid and affords ample room for a sure footing. The mill work and general construction of all these silos is perfect. Every stave, no matter whether for an 8- or 25-foot silo, is built for that particular silo and has just the correct bevel with a heavy half-inch tongue and groove. As every piece is marked, there is no trouble whatever in putting up one of these silos.

Send for complete catalogue.

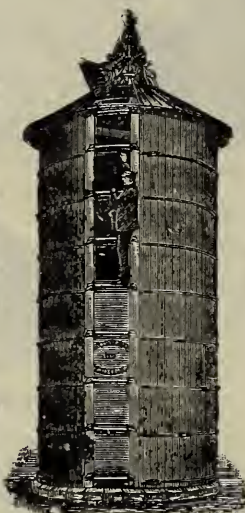


Fig. 163

## THE CHICOPEE CORN HUSKER With Safety Device

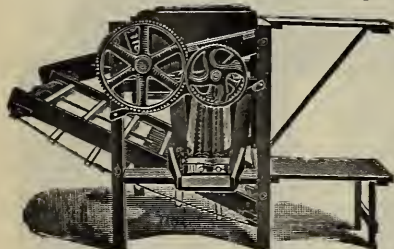


Fig. 164

This is the most useful machine for the individual farm for both stalk and picked corn. A six horse-power gasoline engine will run it to its full capacity and will husk from 25 to 50 bushels an hour, according to condition and quality of corn. The Chicopee is guaranteed to husk the corn and separate the ears from the stalks without material injury to the grains of corn. Price, \$225.00.

Testimonial letter from a satisfied customer, written December 2, 1915.

Ross Bros., Worcester, Mass.

Dear Sirs:—The corn husker I bought from you last fall gave grand satisfaction. Would recommend it to anyone.

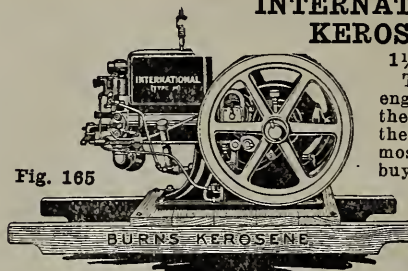
Very truly yours,  
JOSEPH ADAMS.

## INTERNATIONAL TYPE M KEROSENE ENGINE

1½, 3 & 6-HORSE POWER

This is the most economical engine that you can buy. At the present price of gasoline, the cost of fuel is one of the most important questions in buying an engine. For that reason the International people have built this to operate with kerosene and in buying, it is well to consider this one important fact, for the fuel consumed is the main item of expense in operating any engine.

Fig. 165



Here are some of its good points. When taken apart the engine is in ten units or groups of parts, so that any trouble can be easily detected and remedied. The base crank case and cylinder water-jacket are cast in one piece. This means perfect alignment of parts. There are three openings into the crank case that gives access to every part. The crank case can be drained of oil. This means a clean engine. The piston has four rings that hold compression perfectly. The connecting rod has wide, thick bearings. The mixer adjustments are so simple that the engine can be operated by an inexperienced person.

1½ Horse Power, Weight 341 lbs.	\$ 93.50
3 Horse Power, Weight 494 lbs.	135.50
6 Horse Power, Weight 869 lbs.	229.00
10 Horse Power, 5% cash	425.00

## Improved De Laval Cream Separators and Clarifiers for Both Hand and Power

The Standard Separator. A Money  
Maker for Any Farmer

De Laval Cream Separators are guaranteed to be as represented and to fulfill all the claims made for them, being sold subject to the guarantee of their unqualified superiority in every material feature of separator practicability inclusive of the production of a greater value of cream and of a greater quantity of butter of better quality than is possible through the use of any other separator or creaming system.

- Improved No. 5, actual capacity, 225 lbs. per hour, \$82.50.
- Improved No. 10, actual capacity, 350 lbs. per hour, \$100.00.
- Improved No. 12, actual capacity, 500 lbs. per hour, \$112.00.
- Improved No. 15, actual capacity, 750 lbs. per hour, \$130.00.
- Improved No. 17, actual capacity, 1000 lbs. per hour, \$145.00.
- Improved No. 19, steam turbine, actual capacity, 750 lbs. per hour, \$160.00.
- Improved No. 20, steam turbine, actual capacity, 1000 lbs. per hour, \$175.00.

Send for complete catalogue.

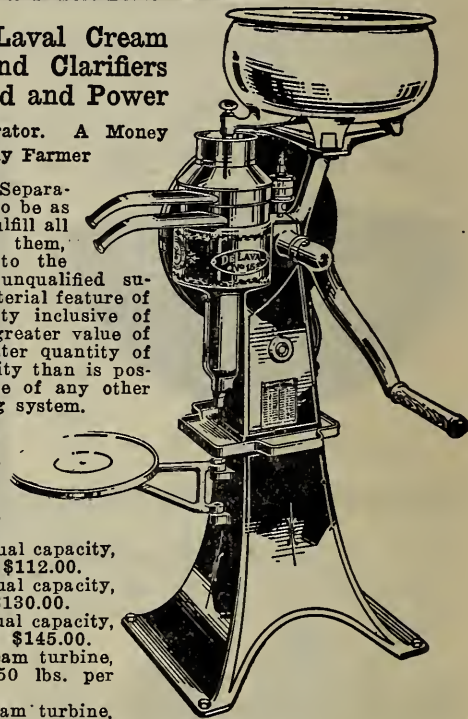


Fig. 166

## The Victor Lever Cutter

The best lever cutter made. Knife always up to its place. Prices No. 1, \$7.25; No. 2, \$7.50; No. 3, \$10.00; No. 2½, \$8.00.

## Ohio Hand-Power Cutters

Nos. 8½ and 10½

## Best Hand Cutter Made

No.	Knives	Length of cut	Price
8½	2	¼	\$40.00
10½	2	¼	46.00

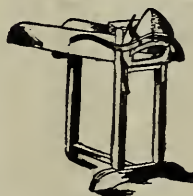


Fig. 167



Fig. 168





# EVERYBODY KNOWS ROSS' SEED GROWS



## WRIGHT'S ANIMAL TETHER

The cut shows the advantage of this invention, which is designed to obviate the danger of horses and other animals becoming entangled in the rope with which they are fastened. It consists of a pole about ten feet in length, connected with an upright bar, upon which it turns in any direction. The animal is fastened to the end of this pole by a rope, which is kept taut above his head by means of a spring at the base of the pole; this keeps the pole high in the air, until in reaching for the feed the animal pulls it down, thus at all times keeping the rope from under his feet.

Price, \$4.25

Fig. 169

## The Chicopee Corn Sheller

Has hardwood frame, well mortised and painted. large hopper adjustable to all sizes of ears, heavy fly wheel separator which separates the ears from the shelled corn, and chaff sieve. Can be furnished with pulley which bolts to flywheel. Price, \$14.50.

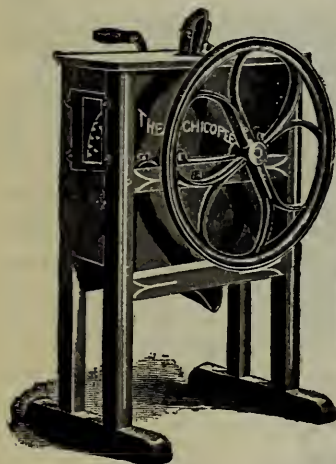


Fig. 170

## Pyrene Fire Extinguisher

The Fire Extinguisher That Puts Out Any Kind of Fire Every automobile should have one and every set of farm buildings should have two or three, one in the house and one in the barn. They will not freeze and will pay for themselves with what they can save from insurance. Price, Nickel, \$11.00; Brass, \$10.00.

**PHOENIX FIRE EXTINGUISHER**  
A dry powder tube. Will stand freezing Each, \$1.50.



Fig. 171

## Kraut Cutters



Fig. 172

Made of extra quality Sugar Maple—Sanded so they are smooth—Finished in the white—Perfectly fitted sliding box—Steel knives with polished cutting edge—Knives red enamel finish up to edge—Thickness of cut instantly changed—Knives held firmly in position—No slots or holes to fill up and clog the machine—The simplest, cleanest and most perfect Cutters—Sure to give satisfaction—Can be set and used by any one.

Plain Steel Knives, Maple Wood; Each Knife Adjusts Separately, a Good Low Priced Kraut Cutter.

### PRICE LIST

Number	Knives	Size	Each
55E	3	9x26	\$2.25
65E	3	11x30	3.25

## HORN TRAINERS

(Patented October 2, 1906)

Symmetrical horns add to the selling value of an animal. By the timely use of a horn trainer a perfect in-curving horn is obtained.

Breeders should keep a set of four sizes on hand, enabling them to fit at any

time any animal of the Jersey or Guernsey breeds. If a single pair only is desired, measure the horns from tip to tip and order the smallest size that will bridge the span when fully opened.

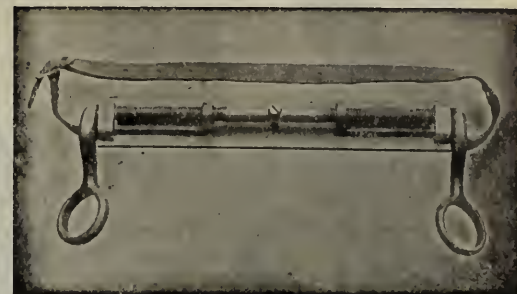


Fig. 173

### STOCK SIZES

No. 1 Closes to 5 3/4 inches.	Opens to 7 3/4 inches.
No. 2 Closes to 7 3/4 inches.	Opens to 9 3/4 inches.
No. 3 Closes to 9 3/4 inches.	Opens to 13 3/4 inches.
No. 4 Closes to 11 3/4 inches.	Opens to 15 3/4 inches.

Sent postage prepaid for \$8.50 for a set of four sizes, or \$2.50 each.

## Cast Iron Corn Sheller

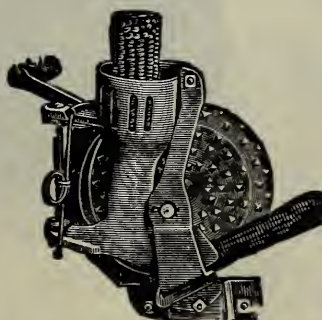


Fig. 174

For convenience and general utility this little corn sheller will be found one of the handiest tools imaginable. It is so simple that there is absolutely nothing about it to get out of order, and so strong that it will not break. Net price, \$2.50. Weight 15 lbs.

## The Banner Root and Vegetable Cutter



Fig. 176

The "Banner" root cutter contains features found in no other machine. It has a self-feeder; separates the dirt from the cut feed and leaves the cut food in such condition that the stock cannot choke.

No. 20 For hand power...	\$20.00
7 For hand power...	7.00
30 For hand power...	32.50

## The Red Chief Corn Sheller

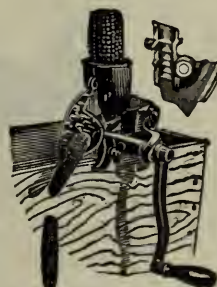


Fig. 175

A substantial but low priced corn sheller, made of iron, painted red. Can be attached to a barrel or box. Adjustable for large and small ears. Has attachment for shelling pop corn. Price, \$2.75.

Pop Corn attachment, 50 cts.





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## BAG HOLDER



Fig. 177

Patent Bag Holder and Funnel Combined. Is the simplest and most convenient arrangement for holding bags when being filled with grain or anything ever put in bags. \$4.25 each.

## THE IDEAL MILK COOLER

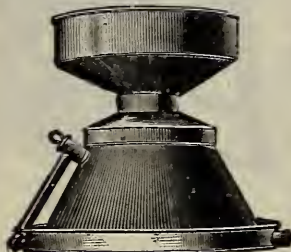


Fig. 178

The Ideal Milk Cooler and Aerator does what no other cooler does, namely, thoroughly cools the milk and at the same time aerates it perfectly, so that it is ready to ship or peddle at once. No time is lost in stirring morning's milk and getting it ready for customers, as it is cooled as fast as milked.

No. 2. Suitable for 10 to 15 cows. Price, \$11.00.

No. 3. Suitable for 25 to 40 cows. Price, \$13.50.

## FLAT WIRE BOTTLE CARRIER

Fig. 179

New Style and Improvement.  
6 1-qt. Bottle Carrier, \$2.10. Weight, 3 oz., 8 1-qt. \$2.65.



## WIRE BOTTLE CARRIER

Fig. 180

6 1-qt. Bottle Carrier, \$1.50.  
4 1-qt. 2 pint Bottle Carrier, \$1.50.  
4 1-qt. Bottle Carrier, \$1.25.



## 20th CENTURY BABCOCK HAND MILK TESTER

Complete with glassware

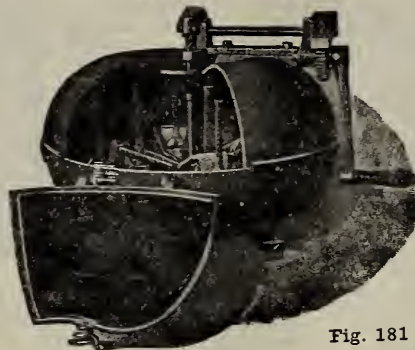


Fig. 181

6-bottle	.....	\$16.50
8-bottle	.....	17.50
10-bottle	.....	18.50
12-bottle	.....	19.50

## VARNISHED CYLINDER CHURNS Designed for those having a small dairy.

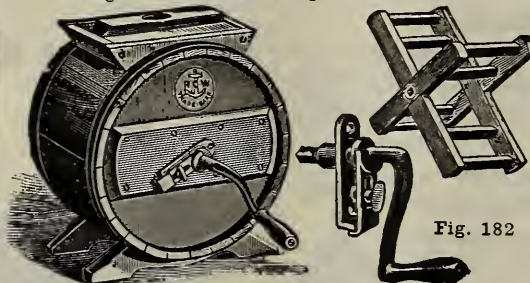
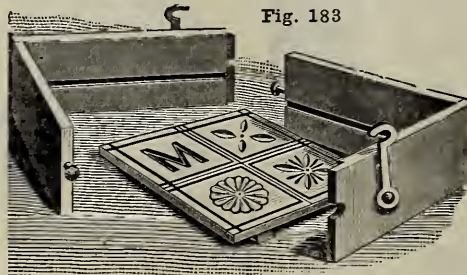


Fig. 182

No.	Capacity	
0	1 gal.	.....\$3.75
1	2 gal.	.....4.25
2	4 gal.	.....4.85
3	6 gal.	.....5.50
4	8 gal.	.....6.50

## BLANCHARD BUTTER MOLD

Fig. 183



Initial engraved 25 cts. extra. Weight 1 lb.  
One-half pound .....\$1.00  
One pound .....1.25  
Two pounds .....1.50

## WATER'S BUTTER WORKER

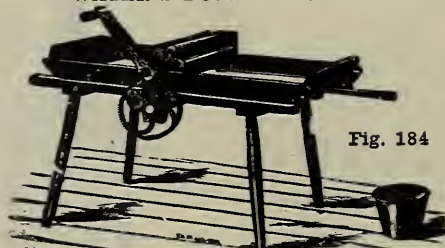


Fig. 184

No. 0, 1 to 15 lbs.	\$18.50	No. 3, 5 to 50 lbs.	\$21.00
No. 1, 5 to 30 lbs.	19.50	No. 4, 10 to 80 lbs.	21.50
No. 2, 5 to 50 lbs.	20.50		

## The Bell Barrel Churn



Fig. 185

white oak, thoroughly seasoned and kiln dried, having galvanized iron rim in head, making it as strong as a barrel with two solid heads.

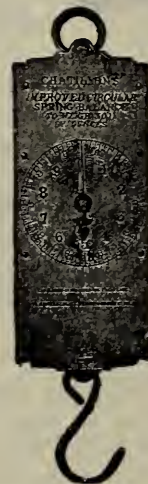
No churn works so easily, no churn cleaned more quickly, having no dashers nor paddles. The churning is done by revolving the churn, which agitates the cream and makes the butter separate from the milk.

0, 6 gal. will churn 1 to 3 gal. cream.	Weight, 27 lbs. Price \$8.00.
1, 10 gal. will churn 1 to 5 gal. cream.	Weight, 33 lbs. Price \$9.00.
2, 15 gal. will churn 1 to 7 gal. cream.	Weight, 38 lbs. Price, \$10.00.
3, 20 gal. will churn 2 to 10 gal. cream.	Weight, 46 lbs. Price \$11.00.
4, 25 gal. will churn 2 to 12 gal. cream.	Weight, 73 lbs. Price \$14.00.
5, 35 gal. will churn 3 to 17 gal. cream.	Weight, 80 lbs. Price \$16.00.

## Dairy Scales

Fig. 186

Graduated in 1 oz. Weighs 30 lbs. Made especially for dairymen. Has adjustment for taking out weight of pail. Price, \$6.00. Weight 4 lbs.



## FAIRBANK'S DAIRY SCALES Fig. 187

Indispensable for the dairy; has porcelain top; weight from 1/4 oz. to 25 lbs. Net price, \$10.50.







# EVERYBODY KNOWS ROSS' SEED GROWERS



## MILK PAILS



Fig. 188

Plain Span Top Dairy Pails. Made from heavy tin. 12 qts., \$1.50; 14 qts., \$1.65.

## J. I. C. Stable Pail



Fig. 189

The best stable pail on the market. Made of oak with iron strap running down the side and heavy iron bail. Price, \$1.50.

10-qt. Light Galv. Pails.....50 cts.  
12-qt. Light Galv. Pails.....60 cts.  
14-qt. Light Galv. Pails.....60 cts.  
No. 850. 14-qt. Heavy Galv. Pails....85 cts.



Fig. 190

## THE R. B. MILK BOTTLES

This bottle is a great improvement over any other style of bottle made, from the fact that it has no corner for the dirt to stick in. The bottom inside being made round, it cleans very easily. We have them made expressly for us, and every bottle is extra quality glass, and stamped on the side: "This bottle to be washed and returned."

### Prices

One quart .....	Per doz.	\$1.25	Per gross	\$13.50
Pint .....	Per doz.	1.10	Per gross	11.00
One-half pint .....	Per doz.	1.00	Per gross	10.00

## HORNE VERTICAL CAN STRAINER

Is warranted to filter milk through filtering flannel as fast as poured and remove the finest trace of sediment, leaving the milk absolutely clean.

Filtering flannel is superior to absorbent cotton when used with the vertical process. Note illustration showing air vents for the free circulation of air.

Were it not for the air circulation milk could not be successfully strained through filtering flannel, as a quart of air must escape as fast as a quart of milk is poured.

Price of strainer with double flannel, \$3.00. Price of double flannels, 50 cts.



Fig. 197

## Sanitary Milk Pail The New Dover



Fig. 191

The Breast on our Pail has a guard which absolutely prevents dirt from falling from the breast into the pail.

Capacity 14 qts.; diameter bottom, 9 1/4 in.; diameter top, 12 1/4 in.; extreme height, 13 3/4 in. Net weight, 4 1/4 lbs. each. Shipping weight, 6 lbs. each. Price, \$3.25 each.

## MILK CANS.

Hi-grade Worcester Pattern Cans with wood bung.

	Ea.	Doz.	by 100
10 1/4 qt.	\$2.20	\$2.10	\$1.00
8 1/2 qt.	1.85	1.75	1.65
6 qt.	1.60		
4 qt.	1.45		
2 qt.	1.00		
1 qt.	.85		
1 qt. Funnels	.25		



Fig. 192

## BOTTLE TOPS.

Made of heavy card paraffined, plain or printed as follows ("Guaranteed Pure Milk" Please put out bottles every day.)

Per 1000.....	\$ .75
" 5000.....	3.50
" 10000.....	6.70
Lipped Caps, same as above:	
Per 1000.....	\$ .80
" 5000.....	3.85
" 10000.....	7.50

## Gem Combination Milk Bucket Strainer With Removable



Fig. 194

It has no equal in its simplicity. Made of the best IX tin, with Steel Strainer Frame. The Gem Combination Milk Bucket can be used for milk with strainer, or the strainer can be removed by a single turn of the latch and the bucket used for any other purpose. The Strainer is constructed of Steel, with Fine Brass Wire Cloth and can be readily converted into a cloth or muslin strainer by simply covering the frame with the cloth and inserting the frame in place.

Prices, 10 quarts, each \$1.25; 12 quarts, each \$1.35; 14 quarts, each \$1.50. Weight, 3 lbs.

Prices, 10 quarts, each \$1.25; 12 quarts, each \$1.35; 14 quarts, each \$1.50. Weight, 3 lbs.

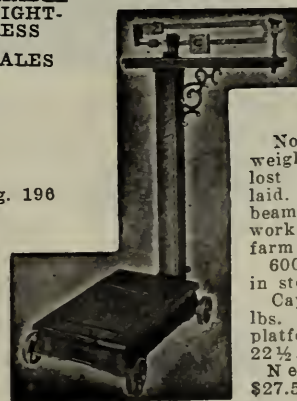


Fig. 195

The Dumas square box holds five lbs.; the only box that butter can be turned out of and left in good shape. Price per dozen, all papered, \$2.00. We also have the five pound round boxes at \$2.00.

## RELIABLE WEIGHT- LESS SCALES

Fig. 196



No loose weights to get lost or mislaid. The two beams do the work. A handy farm scale. 600 lbs. only in stock. Capacity 600 lbs. Size of platform 16 x 22 1/2. Net Cash \$27.50.





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## Butter Jars and Covers

The ideal package for keeping butter and putting down eggs in water glass; also fruits, vegetables, and all kinds of meats and sea foods may be successfully packed and kept in stoneware jars.



Fig. 198

## Crocks with Covers

1 gal.....\$ .75	5 gal..... 2.25
2 gal..... 1.00	6 gal..... 2.50
3 gal..... 1.50	8 gal..... 3.00
4 gal..... 2.00	10 gal..... 4.00

## The Hessler Mail Box

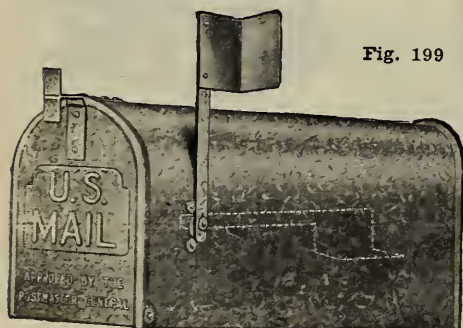


Fig. 199

Conforming in every way to the Post Office requirements for rural delivery box. Dimensions. No. 1 18½" long, 6¼" wide and 7½" high; No. 2 23½" long, 11" wide and 14" high.

Inside measurements. No. 1 weighs 10 lbs., No. 2 weighs 25 lbs.

Price of No. 1 is \$2.00. No. 2. \$3.00.

## HAGER TOOL RACK

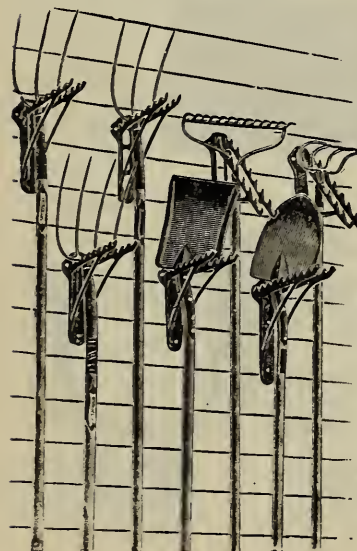


Fig. 200

Designed for store or stable. Made in three styles for shovels, hoes or forks. Combination racks for stores can be used for all. Price, 75 cts. each. Weight, 3 lbs.

## MAJESTIC ROTARY WASHER



Fig. 201

Ball bearings and balance fly-wheel almost make it run itself. Price, \$12.50.

## WHITE MOUNTAIN ICE-CREAM FREEZER



Fig. 202

## PRICES

1 qt.....	\$4.15
2 qt.....	5.15
3 qt.....	6.10
4 qt.....	7.40
6 qt.....	9.00

## SMALL'S CALF FEEDER



Fig. 203

The original calf feeder. Price, \$5.00. Weight, 4 lbs.

## LANTERNS

Will give a good light and are absolutely safe to carry.

No. 2 Blizzard. Price, \$1.65. Weight, 3 lbs.

Deitz, Jr. Wagon Lamp. Conforms to State Light Law, \$2.00.

No. 0. Monarch, \$1.00.

No. 2. Royal, \$1.25. Weight, 3 lbs.

Lantern Globe, No. 0, 20 cts. each; No. 2, 20 cts. each; Bull's Eye, 25 cts. each. Weight, 1 lb.



Fig. 204

## SUCCESS ASH SIFTER

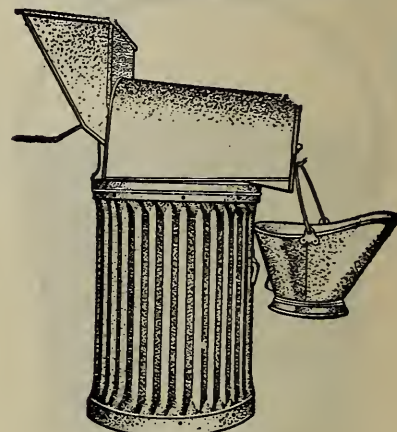


Fig. 205

Keep the Home Fires Burning, but sift your coal and save every piece.

Rightly named, for it does the work in half the time with no dust or noise and with very little work.

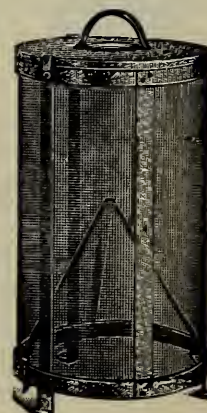
No. 1. Family size .....	\$4.50
No. 2. Large furnace size.....	7.50
No. 1. Complete with galvanized ash can .....	7.00
Galvanized Ash Cans, 18x26.....	3.25

## Rittenhouse Out-Door Fly Trap

Fig. 206

Is 19 inches high and 11 inches in diameter. The framework is galvanized sheet metal covered with black painted wire cloth.

One of the best traps yet invented for ridding the stable of flies. Price, \$1.25 each.



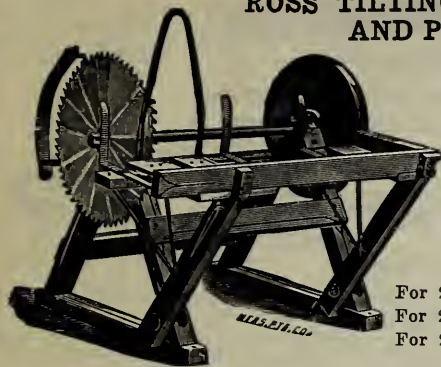




# EVERYBODY KNOWS ROSS' SEED GROWS



## ROSS TILTING TABLE WOOD AND POLE SAW



All of the saws are made to drop wood on right-hand side unless otherwise ordered.

Fig. 207

For 22 in. Saw add... \$ 8.00  
For 26 in. Saw add... 10.00  
For 24 in. Saw add... 9.00

Tilting Table, Wood Saw Frame, only..... \$7.50  
Tilting Table, Pole Saw Frame, only..... 47.50  
Sliding Table, Wood Saw Frame, only..... 42.50  
Pole saw has balance wheel under frame.

## CAST IRON HOG TROUGH

Cast iron hog troughs. Nearly the price of wood troughs and will never wear out. 4 ft. \$7.75 each, 5 ft. \$9.00.

## Eureka Stump Puller and Rock Lifter

This is by far the simplest and most efficient device on the market for pulling stumps, lifting stones and handling heavy bodies, and will be found very useful. Price, No. 1, weight 22 lbs., capacity 4 tons, \$18.00. No. 2, weight 26 lbs., capacity 6 tons, \$20.00. No. 3, weight 32 lbs., capacity 8 tons, \$22.00. This price includes the metal part only.



Fig. 208

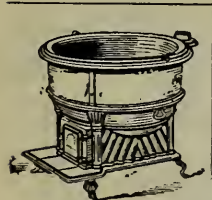


Fig. 209

## FURNACES AND CALDRONS

For cooking feed, grains, etc., for heating water, for rendering lard and grease, etc., etc. Hard or Soft Coal, or Wood

### LIST PRICES, CAPACITIES, ETC.

	15 gal.	22 gal.	30 gal.	45 gal.	60 gal.
Furnace and Caldron for coal .....	\$58.00	\$72.00	\$89.00	\$105.00	\$120.00
Furnace only....	36.00	44.00	55.00	60.00	68.00
Stove only.....	26.00	31.00	38.00	46.00	50.00
Caldron only....	14.00	18.00	21.00	28.00	32.00
Cover only.....	4.00	5.00	6.00	7.00	8.00
Coal Fixtures only .....	9.00	12.00	13.00	17.00	21.00
Furnace and Caldron coal shipping weight, lb.	3.00	3.50	4.00	6.00	8.00
Furnace and Caldron coal shipping weight, lb.	6.00	8.00	9.00	11.00	13.00

## ECONOMY BOILERS

No Farmer can afford to be without a farm boiler or large kettle of some kind. The Economy, shown in cut, is the cheapest of any on the market.

For out door use only, as it has no grate. Prices, 33 gal., net cash price, \$23.00; 48 gal., net cash price, \$24.00; 65 gal., net cash price, \$32.00. Other sizes furnished if desired.

Fig. 210



## WORCESTER MOUNTED PORTABLE SAW RIG

This outfit makes an ideal equipment to use for home work or for going out sawing wood. The engine is mounted on Worcester Farm Truck with steel wheels. Timbers are 4"x6" oak 11 1/2

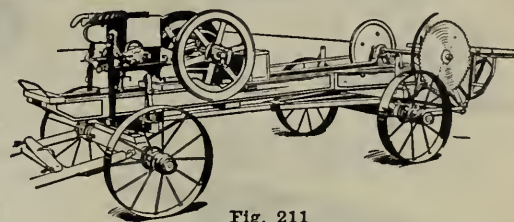


Fig. 211

ft. long, fitted with tilting table saw mounted on the rear. The balance wheel on the saw may be taken off for sawing long wood. Each equipment is fitted with 5" 4 ply rubber belt and belt tightener and is operated by handle with latch. This prevents belt from slipping. A convenient seat directly in front of the engine with foot rest. Easy to travel on the road. A first-class engine. Can be furnished with any size engine, but 6 H.P. is the usual size used for sawing wood and general farm work.

Price, as above, with 4 H.P. engine \$440.75.

## "GOSHEN" ROUND END STOCK WATERING AND STORAGE TANKS



Fig. 212

List No.	Width Feet	Height Feet	Length Feet	Cap. Gals.	Weight Pounds	List Price
101.....	2.....	2.....	4.....	91.....	74.....	\$12.00
102.....	2.....	2.....	5.....	117.....	88.....	14.00
103.....	2.....	2.....	6.....	144.....	102.....	15.00
104.....	2.....	2.....	7.....	170.....	121.....	17.00

We can furnish any size.

## The Improved Kelly-Duplex Grinding Mills

The Product of a Quarter of a Century's Experience in manufacturing Grinding Mills.

A Continuous Record of Superiority.

The Kelly-Duplex is the Best Mill in the World.

BECAUSE it is provided with a double set of grinders or burrs, for which reason it is called the Duplex

BECAUSE it is the only mill manufactured which has double or duplex grinders.

BECAUSE it has a grinding surface of just double that of any other mill of equal size, and can therefore do twice as much work.

BECAUSE it can do as much work as any other mill of double its size.

BECAUSE it is very economical in the use of power, running much easier than any other mill.

BECAUSE it will grind any kind of grain, cotton seed ear corn and cob, with or without shucks, velvet beans, pea vine hay, kaffir corn and heads, alfalfa, clover hay, etc., equally well, and produce a grist of any desired quality, coarse, medium or fine. Capacity.

No.	Bu. Per Hour	Horse Power	Price
No. 50 with pulley.....	1 1/2	1 to 6	\$25.00
1 .....	10 to 20	3 to 6	67.50
2 .....	20 to 30	7 to 10	85.00
3 .....	30 to 40	10 to 15	105.00
4 .....	50 to 75	15 to 20	140.00

Freight paid to your station. 5 per cent cash.

## Our Special Outdoor Dryer

Made of best stock; cotton line, 110-ft. line, \$9.50, 150-ft. line, \$10.25. Above includes box to go into the ground.

Fig. 214







# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



**Asparagus  
Buncher**

Fig. 215  
Price \$4.00

Mailing Weight, 5 lbs.

## ARLINGTON SLIDE HOE



Fig. 216

Used by nearly all of the large market gardeners. Where there are no stones it will do excellent work and do it fast. Made in three sizes. 8 in. \$1.50, 9 in. \$1.65, 10 in. \$1.75. 3 lb Handle not included by parcel post.

## SUNNYSIDE HOE

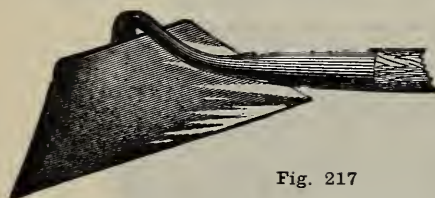


Fig. 217

The above cut shows the Sunnyside or Strawberry Hoe, invented several years ago by one of our largest strawberry growers and since then used by several of the lead-in fruit growers in the state. It is especially adapted for small fruits and close cultivation. Price, each, \$1.25.. Mailing weight. 2½ lbs.

## NORCROSS IMPROVED HAND GARDEN CULTIVATOR



Fig. 218

A very handy garden tool, 5 prongs, \$1.25; 3 prongs, \$1.00. Hand, 65 cts. Mailing weight, 3 lbs.

## SOD CUTTERS

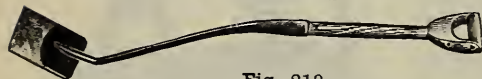


Fig. 219

Made of steel with best Handle. Price, \$2.00.  
**THE BOX THAT MAKES THE PLANT GROW**

**GALVANIZED STEEL WINDOW BOX**, painted green, with water receptacle, an ornament to any house. Also used with best of results in the cemetery or for Living Boquets. 30" long, 8½" wide and 6¼" deep. \$1.75.



Fig. 220

**GALVANIZED STEEL PLANT TUBS**, built on the same principle as the Galvanized Steel Window Box with water receptacle. Can also be hung from the ceiling and makes a very attractive hanging pot.  
10" square, 7½" deep.....\$1.25  
12" square, 8½" deep..... 1.75  
14" square, 10¼" deep..... 2.50



Fig. 221

## ASPARGUS KNIFE

Best asparagus knife made. Made of best steel, strong and rigid. Price. 50 cts. Mailing weight, 1 lb.

## CEDAR PLANT TUBS

Fig. 222

Nicely painted  
Pat. Drop Handles  
Cast Iron Feet



Flat hoops with lugs and standard.

3 18¾" 16¼" 18" ¾" 3" 28" 10.50

## RICHMOND PLANT TUBS

Painted, green rd. wire hoops.

No.	Top Dia.	Bottom Dia.	Depth	Thickness	Hoops	Weight
1	6"	5"	6"	¾"	2"	1" \$ .75
2	7"	5"	7"	¾"	2"	1½" .85
3	8"	6"	8"	¾"	3"	2½" 1.00
4	9"	7"	9"	¾"	3"	2¾" 1.10
5	10"	7½"	9"	1"	3"	3" 1.25
6	11"	8½"	10"	1½"	3"	4" 1.40
10	15"	11½"	14"	5/8"	3"	8" 2.65
11	16"	12½"	15"	5/8"	3"	9" 3.00
12	17"	13½"	16"	5/8"	2"	12" 3.50



Fig. 223

## SCUFFLE HOE AND HANDLE

6 in. 50 cts., 7 in. 55 cts., 8 in. 65 cts., 9 in. 75 cts. Weight, 1 lb. Handle not included by parcel post.

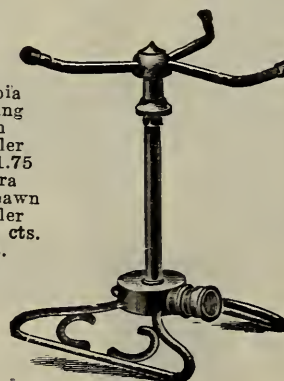


Fig. 224

Columbia  
Revolving  
Lawn  
Sprinkler  
Price \$1.75  
Niagara  
Round Lawn  
Sprinkler  
Price 75 cts.  
5 lbs.

## JUMP TRAP WITH CHAINS



Fig. 225

Light in weight, open up flat and used extensively by lots of trappers. The Nos. 91 and 91½ have double jaws which catch the animal high on leg and prevent gnawing of leg.

Sizes	Each	Doz.	Sizes	Each	Doz.
0 .. \$	.25	\$2.50	91	....\$ .45	\$4.50
1 ..	.30	3.00	91½	.... .55	5.50
1½ ..	.45	4.50			
2 ..	.75	7.50			

## VICTOR TRAPS AND CHAINS

No. 1 Victor Giant, each 25 cts., doz. \$2.65. Has spring on outside and preferred by many trappers on account of price and serviceability.

Sizes	Each	Doz.	Sizes	Each	Doz.
0 .. \$	.20	\$2.00	2	....\$ .45	\$4.50
1 ..	.25	2.50	3	.... .75	7.50
1½ ..	.35	3.50	91	.... .35	3.50
			91½	.... .50	5.00

## STEEL GRASS HOOKS



Fig. 226

**NOLIN ALL STEEL CONCAVE GRASS HOOK.** 75 cts.



Fig. 227

**PRIDE GRASS HOOK.** Solid steel. Every one warranted. 50 cts. 1 lb.



Fig. 228

**PRIDE GRASS HOOK WITH OFFSET HANDLE.** 50 cts.



# THE FOLLOWING IS A PARTIAL LIST OF THE LARGE LINE OF HAND TOOLS WE CARRY.

In ordering give name, number and size.

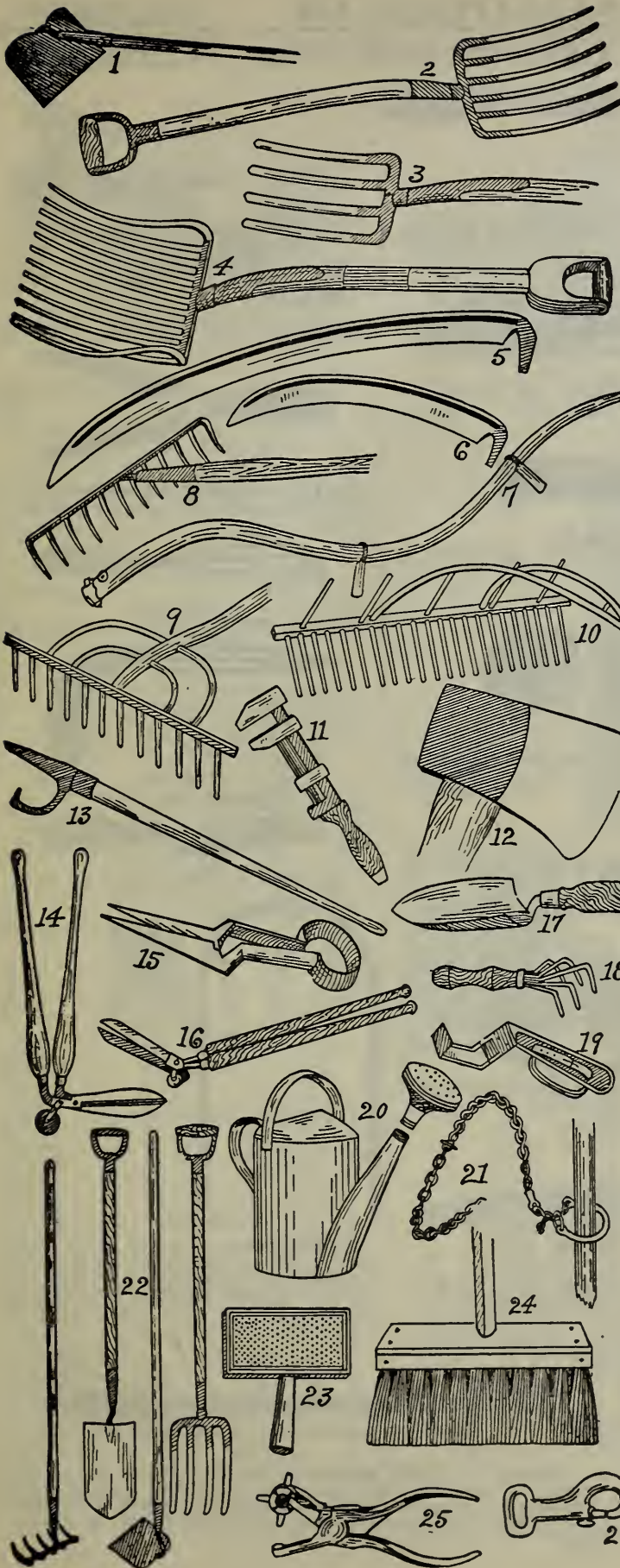


Fig. 1. Hoes.

7½-8 in. Field Socket...	\$ .95
7½-8 in. Field Shank....	.90
8 in. Meadow Socket.....	1.10
8½ in. Meadow Socket....	1.10
9 in. Meadow Socket.....	1.15
9½ in. Meadow Socket....	1.15
8 in. Meadow Shank.....	.95
8½ in. Meadow Shank....	.95
9 in. Meadow Shank.....	1.00
Ladies' .....	.75
Boys' .....	.85
Square Top Onion.....	1.00
9 in. Mortar.....	1.10
10 in. Mortar.....	1.20

No. 8. Steel Rake.

12 Tooth, iron.....	.60
12 Tooth, steel.....	.90
14 Tooth, iron.....	.65
14 Tooth, steel.....	1.00
16 Tooth, iron.....	.70
16 Tooth, steel.....	1.10

No. 9. Rake.

2X, 3 Bow, Bent.....	\$ .95
No. 1, 3 Bow, Bent.....	.90
Lawn Rake, 24 Teeth, XX	1.00
No. 10 Drag Rake.....	1.50

No. 11. Wrench.

8 in. ....	\$1.15
10 in. ....	1.35

Fig. 2. Manure Forks.

4 Tine, Long Handled, Strapped .....	\$1.50
5 Tine, Iron D Handle, Plain .....	1.65
5 Tine, Wood D Handle, Plain .....	2.00
5 Tine, Long Handled, Strapped .....	1.85
5 Tine, Iron D Handle, Strapped .....	1.90
5 Tine, Wood D Handle, Strapped .....	2.10
6 Tine, Iron D Handle, Plain .....	2.00
6 Tine, Wood D Handle, Plain .....	2.00
6 Tine, Long Handle, Strapped .....	2.00
6 Tine, Iron D Handle, Strapped .....	2.10
6 Tine, Wood D Handle, Strapped .....	2.40

No. 12. Foster Axe.....

Black Jacket Axe.....	2.25
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No. 13. Cant Hooks.....

No. 14. Lawn Shears....	4.50
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No. 15. Grass.

Shears, .35 and .75	
---------------------	--

No. 16. Lawn Shears....

4.50	
------	--

No. 17. Garden Trowel.

6 in. Steel.....	.30
------------------	-----

No. 18. Secor Weeder....

.15	
-----	--

No. 19. Noyes Weeder..

.25	
-----	--

No. 20. Watering Pot.

4 quart .....	.80
6 quart .....	.90
8 quart .....	1.10
10 quart .....	1.25
12 quart .....	1.45
16 quart .....	1.75

No. 21. Cow Tie.

3½ feet .....	.40
4 feet .....	.45
4½ feet .....	.50

No. 22. Garden Sets.

1. 3 pieces .....	.15
2. 3 pieces .....	.75
3. 3 pieces .....	1.00
4. 4 pieces .....	2.00
4 Piece set (not shown) a fine warranted set...	2.75

No. 23. Cattle Card.

No. 1, large leather, bound .....	.30
No. 4, small leather....	.25

No. 24. Rattan Brush

Broom.	
5 row, 14 inches.....	1.25
5 row, 16 inches.....	1.40
6 row, 16 inches.....	1.50

No. 25. Revolving

Harness Punch.	
----------------	--

4 Tube .....	.70
--------------	-----

5 Tube .....	.90
--------------	-----

No. 26. Harness Snaps.

.05 to .15	
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Fig. 3. Spading Forks.

4 Tine, Iron D Handle, Plain .....	\$1.50
4 Tine, Wood D Handle, Plain .....	1.65
4 Tine, Long Handle, Strapped .....	1.50
5 Tine, Iron D Handle, Strapped .....	2.15
5 Tine, Wood D Handle, Strapped .....	2.35

Fig. 4. Coke Fork.

10 Tines, 1¼ in. between Tines .....	\$2.65
12 Tines, 1¼ in. between Tines .....	3.10

No. 5. Scythe.

	Mailing
--	---------

	Wgt.
--	------

Clipper .....	\$1.85
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Foster, all steel.....	2.00
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Damascus Steel.....	2.00
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No. 6. Brush Scythes.

2	\$1.85
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No. 7. Scythe Snath.

Ash .....	1.75
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Bush Snaths .....	
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For parcel post rates see inside front cover.





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



**CURVED TOOTH STEEL RAKE** Fig. 229  
12 teeth \$1.00 each, 14 teeth \$1.10, 16 teeth \$1.20 each.



Fig. 230  
**QUEEN REVERSIBLE LAWN RAKE**  
\$1.00 each. 3 lbs. No handle by parcel post.



Fig. 231  
**TURF EDGER**  
\$1.00 each. 3 lbs.  
**WIRE RUBBISH BURNERS**



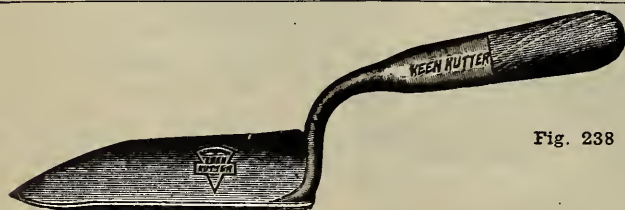
Fig. 232  
No. 4, 21x31 .. \$3.75  
No. 3, 18x26 .. 2.75  
No. 2, 15x22 .. 2.50  
**PEERLESS FRUIT PICKER.**



Fig. 233  
Price, 75 cts. 1 lb.



Fig. 237



**STEEL GARDEN TROWEL**  
Best one ever made. Price, 65 cts.



Fig. 239  
**SECOR WEEDERS.** 12 cts. each, \$1.10 doz.

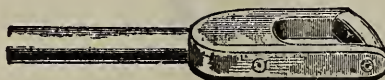


Fig. 240  
**SHOVEL HANDLES.** 85 cts. each.



Fig. 241  
**COOPER HOSE MENDER.** (All brass.)  $\frac{1}{2}$  in. and  $\frac{3}{4}$  in. 8 cts. each; 75 cts. doz.  $\frac{1}{2}$  in. and  $\frac{3}{4}$  in.



Fig. 242  
**PERFECT ALL BRASS CLINCHING HOSE COUPLING.** 35 cts. set. Menders, 10 cts. each. Put it on hose and hammer it in place.

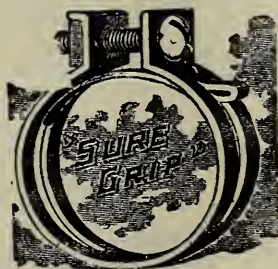


Fig. 243  
**SURE GRIP HOSE BAND.**  $\frac{1}{2}$  in. and  $\frac{3}{4}$  in., 3 cts. each; 2 for 5 cts.



Fig. 244  
**PRUNING SAWS**  
Price, curved edges, 16 in. \$1.25; 18-in., \$1.50. Straight, 16-in., \$1.25; 18-in., \$1.50. One edge, 18-in., \$1.25. Wt 1 lb.



Fig. 245  
**HAZELTINE HAND WEEDER.** 30 cts. each.

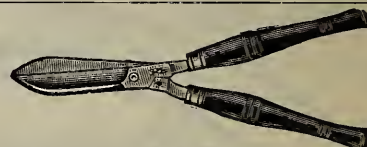


Fig. 246  
**HEAVY POLISHED HEDGE SHEARS.**  
Price \$2.25, with notch for heavy work \$2.50. lbs.

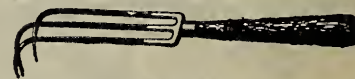


Fig. 247  
**WEEDING HOOK.** 3-tine. Price, 75 cts.

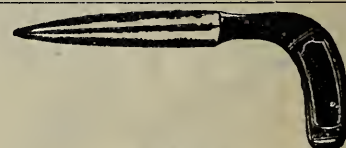


Fig. 248  
**IRON DIBBER.** Price, 75 cts. 2 lbs.



Fig. 249  
**GARDEN TROWEL.** Price, 18 cts.

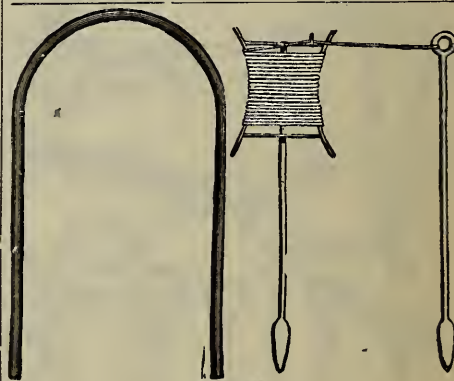


Fig. 250

**WIRE WICKET.** Painted Green Heavy, 85 cts. per doz.; light, 75 cts. per doz.  
**GARDEN LINE REELS.** Two sizes, holds 200 feet of line, \$2.85. Wt. 3 lbs., holds 300 ft. of line, \$3.85. Garden line, 100 ft., \$1.00.

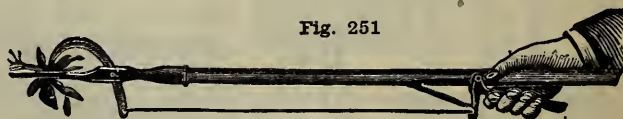


Fig. 251

**CLEVELAND LAWN WEEDER.** The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull suffices to dislodge it without disturbing the surrounding soil. Price, 75 cts. 2 lbs.





# EVERYBODY KNOWS ROSS' SEED GROWS

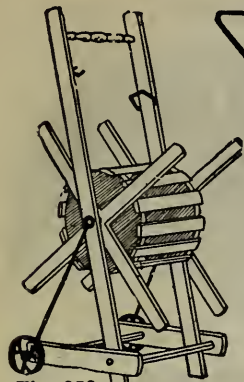


Fig. 252

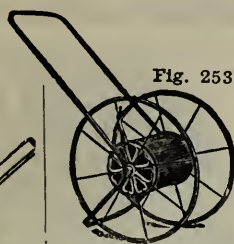


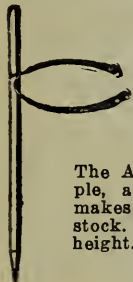
Fig. 253

## Tubular Metal Hose Reel

The most durable reel made. Holds 100 feet of hose. Price, \$3.50.

## The Eclipse Hose Reel

A handy and well-made Hose Reel, mounted on wheels, can be easily moved from one place to another. Hose should always be wound on a reel, as it prevents it from rotting. Price, 90 cts.



## Plant Supports

for Tomatoes, Roses, Dahlias, Hydrangeas and many other brushes and vines.

Fig. 254

The Adjusto is a practical, very simple, and low-priced support, which makes for more healthy, thrifty stock. It can be adjusted to any height. Price, \$2.25 doz.

## Tomato Supports

34 in. high, 20 in. in diameter at the top. Price, 30 cts. each, \$3.50 per doz.



Fig. 256

1 1/2 ft.	\$.02 1/2	\$2.10
2 ft.	.04	3.75
2 1/2 ft.	.06	5.50
3 ft.	.08	7.50
3 1/2 ft.	.10	9.00
4 ft.	.12	12.00
5 ft.	.18	18.00
6 ft.	.20	20.00

## VERANDA TRELLIS

High	Wide	Each
6 ft.	18 in.	\$2.75
8 ft.	18 in.	4.00
10 ft.	20 in.	5.00
12 ft.	20 in.	5.50

For pot or garden use, square, painted green. Nursery's Stake 16 x 2 in. Extra quality. No paint. 4 cts. each; \$3.50 per 100.

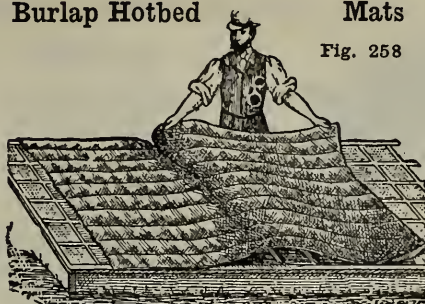
**BAMBOO STAKES**  
50c doz.; \$2.50 per 100.

Fig. 257

## Burlap Hotbed

## Mats

Fig. 258



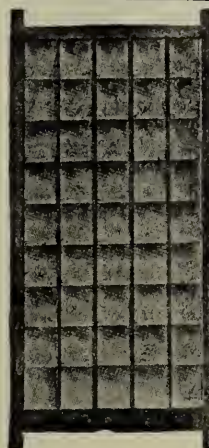
Made of burlap filled with hair felt, 76x76. Preferred by many market gardeners to the straw mats. Each, \$4.00; doz., \$44.00. Straw hotbed mats (not shown) 6 x 6, each, \$2.50.

## Hot Bed Sash

Fig. 259

3 x 6 x 1 1/4 in., with sides projecting, glazed with 6 x 8 in. double thick glass painted two coats, \$8.50 each; in lots of 6 \$8.25 each, in lots of 25 or over, \$8.00 each.

Can furnish unglazed sash in quantities at short notice. Ask us for price; we only carry glazed in stock.



## Tree Labels

Copper Wire

3 1/2 in. per 1000 \$3.00

## Pot Labels

Painted

100 1000

4 in. .... \$2.20 \$1.85

6 in. .... .25 2.85

## Garden Labels

Painted

100 1000

8 in. .... \$1.00 \$0.85

10 in. .... 1.50 13.00

Fig. 260

## Celery Bleaching

Fig. 261 Paper



This picture shows method of handling R. & D. Bleacher. No heavy boards to carry or dirt to shovel. A Bleaching material that saves TIME, LABOR, MONEY. An improvement over boards and other bleaching material.

## Garden Hose

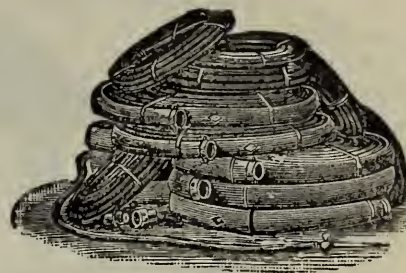


Fig. 262

Our 7-ply Nobust brand of Garden hose is made especially for us. The seven plies and strong friction between them enable the hose to stand the highest water pressure; and every length is fully guaranteed and bears our name and brand.

We handle other standard brands of hose. The prices below are for 25 or 50 foot lengths and no charge for couplings:

Nobust. 1/2 in. 16 cts. ft., 3/4 in. 18 cts. ft. Bull Dog. 7 ply, 5/8 in., 20 cts. ft. Tiger. 6 ply, 1/2 in. 15 cts. ft., 3/4 in. 17 cts. ft.

Leader. 5 ply, 1/2 in. 13 cts. ft., 3/4 in. 15 cts. ft.

Cotton. 3/4 in. 21 cts. ft.

Goodluck. 5/8 in. 17 cts. ft. 25 and 50 ft. lengths only.

## Hose Mailing Weights

25 ft. Bull Dog 1/2 in. 8 lbs. 3/4 in. 10 lbs. 25 ft. Tiger 1/2 in. 6 lbs. 3/4 in. 9 lbs. 25 ft. Leader 1/2 in. 6 lbs. 3/4 in. 9 lbs. 25 ft. Cotton 1/2 in. 6 lbs. 3/4 in. 8 lbs.

## Spray Hose

We have succeeded in getting a spray hose which we can unconditionally warrant. This is a special brand of hose made particularly for orchard spraying with any kind of insecticide and will withstand the most severe tests made up with long tail couplings. Price per foot, 1/2 in., 20 cts. Couplings extra. ft. 20 cts.

## "Peerless" Glazing Points

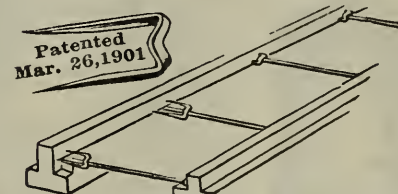


Fig. 263

PEERLESS GLAZING POINTS. Improved Van Reyper. Per box 1000 points, \$1.15.

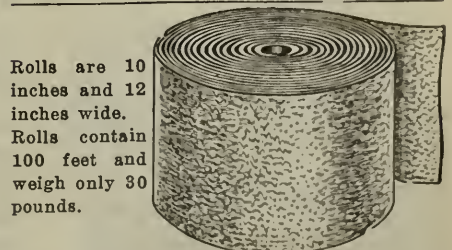


Fig. 264

10 inch (100 running feet), per roll, \$2.80 12 inch (100 running feet), per roll, 3.00 A Tasteless Odorless Indestructible, Waterproof material especially prepared to withstand extremes of heat and cold.





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## Garden Wheel Barrow 8 SPOKE WITH METAL WHEEL

These wheelbarrows are made specially for us, are well constructed throughout, of hard wood and strongly ironed. Finished with two coats of paint and one coat of varnish. This is the best garden barrow on the market. Price, \$8.50.

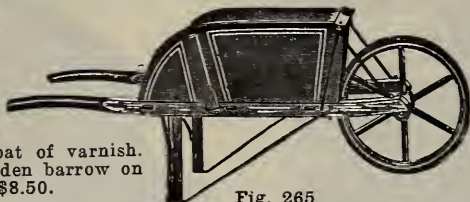


Fig. 265

## Wolverine Angle Leg Barrow



Fig. 266

**TUBULAR STEEL BARROW (Not Shown).** Tubular steel barrow, with pressed steel bowl, and steel frame; double braced and made for heavy work. 3 cu. ft. Price, \$13.50 each.

## Wood Dump Barrow

Without doubt the most durable dump barrow on the market. Either wood or steel wheel. Price, Steel wheel, \$5.75 each.

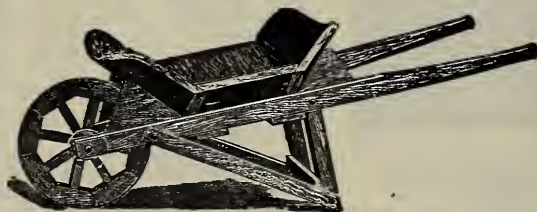


Fig. 267

## The Ross Paper Baler



Fig. 268

Don't throw away your waste paper, when it is worth 50 cts. per 100 lbs. Loose papers will not be taken at any price, as it cannot be handled unless it is baled.

The Ross Baler is made in four sizes, making bales from 70 to 160 lbs. Very easy to operate, taking little room.

One of these balers will turn into profit what waste paper you have, which heretofore was a nuisance.

No. 1, making bale 18x24, 120 to 160 lbs. \$20.00  
No. 2, making bale 16x22, 100 to 125 lbs. 18.00  
No. 3, making bale 15x21, 90 to 110 lbs. 15.00  
No. 4, making bale 15x21, 75 to 90 lbs. 12.50

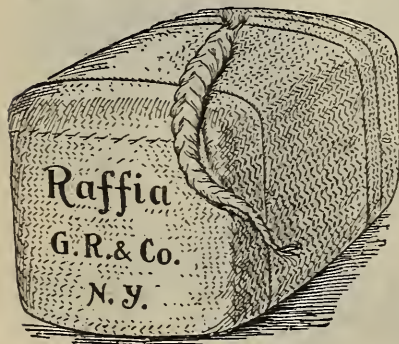


Fig. 269

## Raffia for Tying

For tying vegetables, plants, vines, etc. Better than twine, as it does not cut and is stronger. Comes in hanks weighing from 1 to 3 lbs.

Price, per lb. 25 cts.

## Cast Iron Boat Head

32 in. wide

The illustration below shows a simple device whereby a stone-boat can be made in a few minutes by using a straight plank with the addition of the Iron Head. Anyone in need of a stone-boat will readily see how easy it is done, and as one head will last for years, it is not only cheap, but durable.

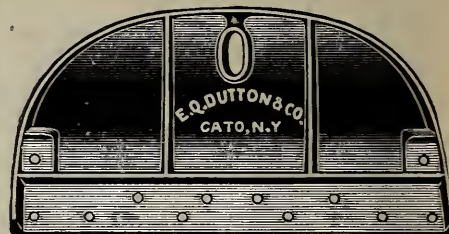


Fig. 270

**BOAT COMPLETE**  
7 ft. long. Complete \$12.00. Bolts for above \$1.00 a set. Price of Head Only, \$7.25.  
All Wood Boat, Complete \$11.00.

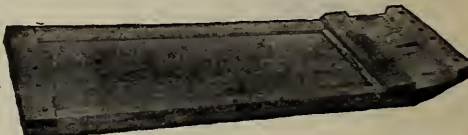


Fig. 271

## Steel Scraper With Runners



Fig. 272

No. 1 carries 7 feet of earth.....\$14.50  
No. 2 carries 5 feet of earth..... 14.50

## Picks, Mattocks, Shovels, Steel Bars

No. 7 Contractors' Picks...\$1.50  
No. 8 Contractors' Picks... 1.60  
No. 9 Contractors' Picks... 1.70  
No. 6-7 Railroad Picks... 1.10  
No. 7-8 Railroad Picks... 1.25  
Long Cutter Mattocks... 1.25  
Pick Mattocks ..... 1.25  
Bog Hoes ..... 1.00



Fig. 273



Fig. 274

Each  
Pound  
Wedges ..... .12  
Crow Bars ..... .12

## The Following Shovels Are All Ames' Make



Fig. 275

No. 2, Ames Special, D. H., square, each \$2.25; No. 2, Ames Special, D. H., round, each \$2.25; No. 2, Our Best, D. H., square, each \$1.85; No. 2, Our Best, D. H., round, each \$1.85; No. 3, Our Best, D. H., square, each \$1.85; No. 3, Our Best, D. H., round, each \$1.85; No. 2, Sunnyside, D. H., square, each \$1.75; No. 2, Sunnyside, D. H., round, each \$1.75, doz. \$15.00. Nos. 3, 4, 5 and 6, add 5 cents each.





# EVERYBODY KNOWS ROSS' SEED GROWS



## HAND AND POWER SPRAYERS FOR ALL PURPOSES

### The Worcester Double Acting Cog Gear Spray Pump

Mounted on skids with 50-gallon barrel, and mechanical agitator. This is a pump with nearly the same capacity as those operated by power, but at a very low price and designed for those having a large orchard and do not care to invest \$100 or \$200 in a spray pump. This pump can be loaded on a wagon or stoneboat and spraying can be done under heavy pressure. It occupies a small amount of space, but has power and capacity sufficient for running 8 nozzles at one time. It is fitted with brass seats, 2-inch seamless brass removable. The pump complete is, one 50-gal. barrel mounted on skids, pressure-gauge, 15 ft., 1/2 in. hose, 8 ft. extension pipe with lever shut-off, mechanical agitator with fembro nozzle, or any nozzle selected. The price of the complete outfit, \$67.50.

We can furnish hose for this pump in 25 and 50-foot lengths.

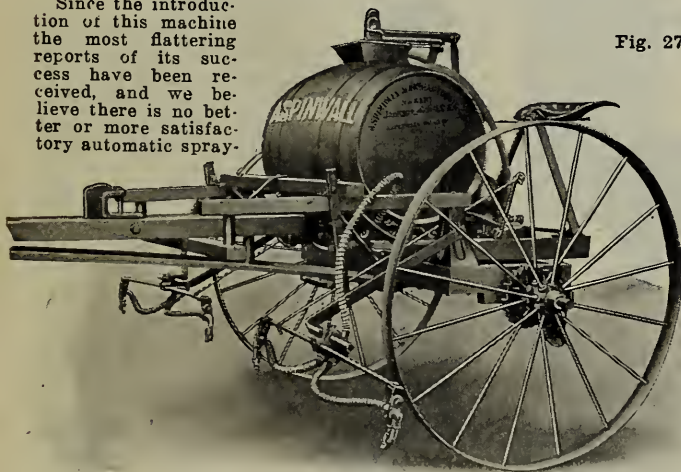


Fig. 276

### ASPINWALL DOUBLE CYLINDER HIGH-PRESSURE FOUR-ROW SPRAYER

Since the introduction of this machine the most flattering reports of its success have been received, and we believe there is no better or more satisfactory automatic spray-

Fig. 277



on the market. It is light draught, all working parts are easily accessible, is very durable, and there are a large number of them in use in large potato growing districts. It is also especially designed for handling Bordeaux mixture and other heavy preparations used in spraying for blight. The nozzles are in front of the wheels, which permits of the vines being sprayed to the end of the row. They are also where the operator can watch them easily. Price, \$170.00.

### MYERS KNAPSACK SPRAY PUMP

The tank of this pump, made of copper, holds 5 gallons and is fitted with lid and strainer, which can be removed. The pump is made of brass with large air chamber, brass ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily. The pump is also fitted with handle so the operator can use it the same as a tank with bucket pump if desired and the handle lever can be shifted from right to left shoulder at will. Has brass stop cock attend of hose. A general purpose pump for all low growing shrubs and vines. Price, Copper, \$24.00; Galvanized, \$15.00. Wt. 16 lbs.

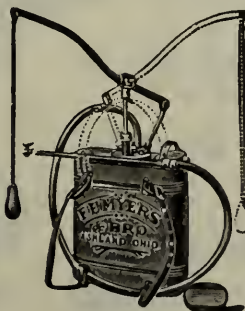


Fig. 278

### BRASS SPRAY PUMP

The construction of this pump is the best possible and we believe it is unequaled for the money. Bronze ball valve, with brass seat, the plunger is brass with hemp packing, and it will handle hot cold or any caustic mixture. Cylinder and discharge pipes are brass. The air-chamber is 30 inches long. Uniform and constant stream; pump sets inside the barrel, entirely submerged. extension pipe, and 15 feet of hose all ready for work. Has cog gear (not shown in cut), which saves fully 33 1-3 per cent of pumping labor. Price, complete, all set in barrel, \$23.50; pump only, less barrel, \$21.50.

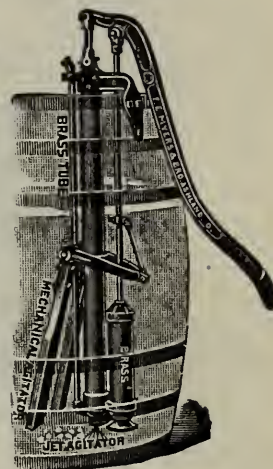


Fig. 280

For washing windows and sprinkling lawns where there is no water pressure. Has foot rest, best hose and spray nozzle. Price, \$5.50. Weight, 6 lbs.

Fig. 279



### "IDEAL" SPRAY OUTFIT

This outfit is light, compact and easy to operate. The tank holds fifteen gallons, is mounted so that the liquid will not slop or spill, and in a way that makes it easy to handle. The pump spreads across the top of the tank and is held firmly in place by a thumb nut. It has the largest air chamber of any spray pump of corresponding size. This enables the operator to keep a uniform pressure at the nozzle.

A mechanical agitator keeps the liquids well stirred. A fine strainer at the opening in the suction pipe prevents

Fig. 281



anything getting into the working parts of the pump. The pump has the following equipment: 10 feet, 3/4-inch Pressure Hose; 8 feet Pipe extension, in 2 pieces; 1 "Ideal" Nozzle; 1 Brass Shut-off Cock. Shipping Weight, crated, 60 pounds. Price, \$35.00.

### Myers' Whitewash and Painting Machine and General Purpose Spray Pump

The most durable spray pump for whitewashing and applying cold water paint there is made. All parts are of the best material and with proper care will last for a lifetime. Price, \$16.00.

### DAISY TIN FORCE PUMP (not shown)

This is a good, low-priced force pump; used for sprinkling vines and shrubs; also used for whitewashing and other similar uses. Made of tin and has two nozzles. Price, \$1.25.

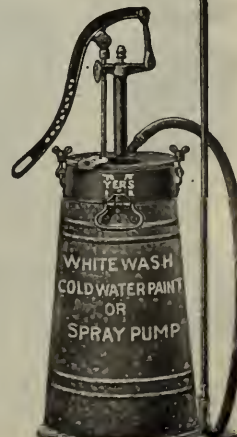


Fig. 282





# ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.



## MYERS' PNEUMATIC COMPRESSED AIR SPRAYER

This Sprayer is made of heavy galvanized iron with  $\frac{3}{4}$  in. brass tube cylinder. The manufacturers claim that a small cylinder operates easier than a large one.

The nozzle is one of the special features of this sprayer, by means of the small lever the spray can be adjusted from a broad, fine spray, covering the ordinary distance, into a complete long distance spray throwing water 25 feet, by means of which the tops of any ordinary fruit tree can be reached.

One of these sprayers will answer not only for the low growing shrubs and vines and also for anyone who has a few tall trees to spray.

Price, \$9.85.

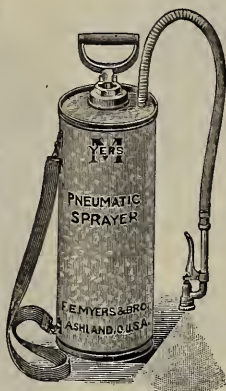


Fig. 283

## HIGLEY'S PRUNERS

Fig. 284

Indorsed by the Moth Commission of the State of Massachusetts, also by tree wardens generally. No wire or metal from the blade to electrocute the user. We have them in all sizes from 10 ft. up, both of the plain and self-holding type.

Price, plain, 10 ft. \$1.00, 12 ft. \$1.10, 14 ft. \$1.20, 16 ft. \$1.30, 18 ft. \$1.40, 20 ft. \$1.50. Self Handles, 10 ft. \$1.25, 12 ft. \$1.35, 14 ft. \$1.50, 16 ft. \$1.65, 18 ft. \$1.75, 20 ft. \$1.85.



## THE AUTO SPRAY PUMP

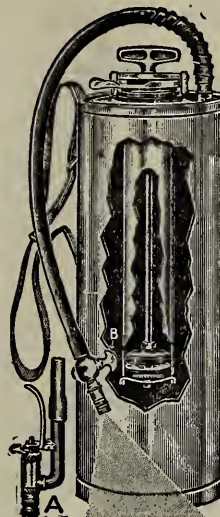
The "Auto Spray" works automatically for six to fifteen minutes, according to the nozzle opening. It may be charged in fifteen seconds by a few strokes of the plunger, and two pumpings will usually discharge the entire contents. Simply fill two-thirds full of solution and pump up air pressure. Diameter, 7 inches; height, 2 feet; capacity, 4 gallons; weight, 16 lbs. with all attachments. Price with stop-cock, Brass, \$11.50; Galvanized, \$8.00.

AUTO HOSE COOK No. 1. Price, \$1.25.

TWO ROW ATTACHMENT. Price, \$1.85.

TWO FOOT BRASS EXTENSION. Price, 65 cts.

BRASS ELBOW. Price, 65 cts.



PATENTED.

Fig. 288

## Bordeaux Special

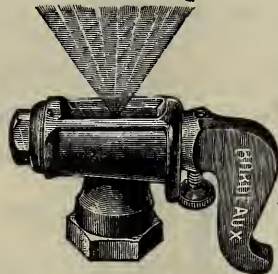


Fig. 289

This nozzle will throw a fine fan-shaped spray and will readily free itself should it become clogged, by turning cock-handle. It will throw a solid stream or it may be shut off altogether if desired. Price, \$1.65. Wt. 1 lb.

## Rochester Self-Operating Sprayers



Fig. 291

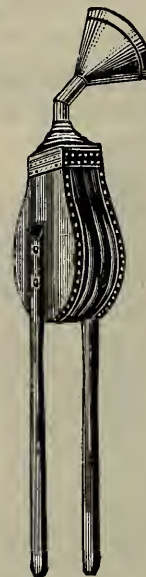
The air enters the sprayer through the valve at bottom of pump thoroughly agitating and mixing the contents of Sprayer. The compressed air, being powerful, forces the liquid out through the outlet pipe, making either a fine spray or a solid continuous stream as desired. This size machine holds from 3 to 4 gallons. Price, Galvanized Iron, Style G, \$7.50. Brass, \$10.50. Weight, 9 lbs.

## ACME POWDER GUN

A simple, practical implement for the extermination of potato-bugs and all kinds of insects, flies, &c.; the pests of house and garden. Net price, single, \$1.50. Weight, 4 lbs.

For parcel post rates see inside front cover.

Fig. 292



## Fembro Nozzle

Showing parts of the Fembro Nozzle and how it is made.

PEMBRO Nozzle is the same size and capacity as the Power Nozzle, but without the self-cleaning device. This Nozzle is fitted with a removable steel disc in the cap. Price, \$1.20. Weight,  $\frac{1}{4}$  lb.

FEMBRO 45 degree nozzle. This nozzle is the same as the hand spray nozzle, only made on an angle which enables the operator to get inside of the tree and in under the foliage. Price, \$1.35. Weight,  $\frac{1}{4}$  lb.



Fig. 285

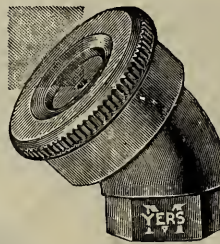


Fig. 286

## Boston Spray Nozzle

Will throw a spray, a large or a small solid stream. Price, 85 cts.

Fig. 293



## THE ACME ATOMIZER

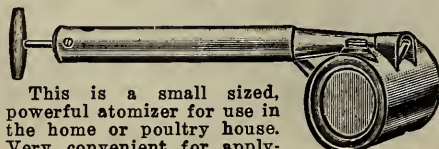


Fig. 287

Used largely for spraying cattle, with the different mixtures on the market, to keep off the flies; spraying Paris Green and other insecticides on potato vines, shrubs, small trees, house plants, live stock, and poultry. Price, tin, 60 cts., with brass cup, \$1.15.

## LITTLE MIDGET SPRAYER

Fig. 290



This is a small sized, powerful atomizer for use in the home or poultry house. Very convenient for applying dust layers or disinfectants. 40 cts. each.

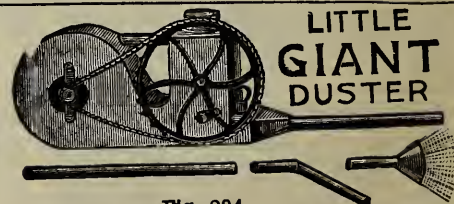
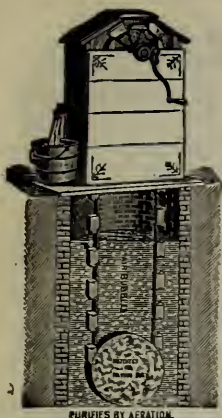


Fig. 294

Distributes all kinds of powder. Weight, 12 lbs. Price, \$12.00.



# EVERYBODY KNOWS ROSS' SEED GROWS



## THE BUCKET PUMP

We will guarantee it to purify any well in five days, or we will refund the money. Cannot freeze. Can be set up without going below platform. Price for 10 ft. well \$13.50, for each additional foot of well add 50 cents.

Fig. 295

## THE HOUGHTON SPRAYER



For spraying different insecticides for both greenhouse and outside use. By this construction the cartridge presents an equal area of surface at all times to the action of the water passing through the sprayer, thereby delivering a spray of the same strength at the finish as there was at the beginning of the cartridge. Cartridges of different varieties are inserted in the holder and as the water passes through the insecticide dissolved and delivered onto the foliage of the plant. This is a Worcester made product, guaranteed to give perfect satisfaction. No clogging of the nozzle and if you want your plants and shrubs free from insects, you will make no mistake in buying one of these outfits. Cartridges supplied as follows



Fig. 296

Sulphur and Lime.  
Whale Oil Soap.  
Arsenate of Lead.  
Pyrethrum Soap.  
Disinfectant Soap.  
Clea-up Soap (for ferns and palms.  
Tobacco (Nicotine Soap).  
Hellebore Soap.  
Kerosene Emulsion.

Price Sprayer \$6.00. Cartridges 50 cts. each.

## RUBBER ATOMIZER



Fig. 297

Useful for sprinkling house plants and also for spraying hellebore and bug death. Either style of neck. Small size \$1.25, large size \$2.00.



Fig. 298

**FURBER WOOD PUMP**  
6 x 6 for house use,  
7 x 7 for stock. 6 x 6  
in. Stock 3 1/2 bore for  
general use.

Porcelain-lined Unlined  
7 ft. long. \$13.50 \$11.15  
8 ft. long. 14.50 12.00  
Use 4x4 inch pipe  
for above pumps.  
Price, 40 cts. per  
foot. Couplings and  
bands for the  
above  
\$1.10 each.

## STOCK PUMP

Use 4 1/2 x 4 1/2  
inch pipe. 40  
cts. per foot  
Couplings and  
bands for the  
above, \$1.10  
each.

8 ft. lined,  
\$17.75

## RUBBER BUCKET CHAIN PUMP

They are the  
best cheap  
pumps. Price,  
Curbs, \$5.75  
each. Chain (3  
ft. to lb.) 15  
cts. per lb.  
Wood Tubing,  
15 cts. per ft.  
Rubber Buck-  
etc, 15 cts.  
each.

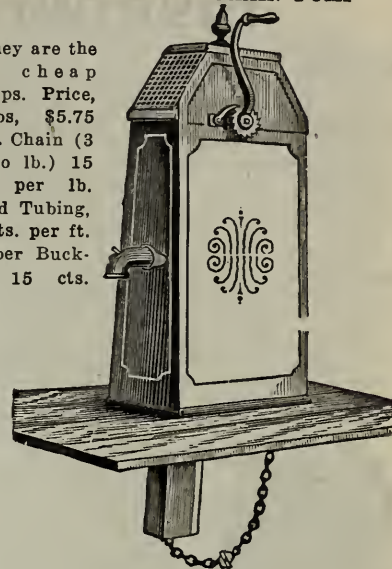


Fig. 300

## THE RING LAWN SPRINKLER

Our "Ring" Lawn Sprinkler is a decided improvement over any lawn sprinkler of this type sold before. Made entirely of sheet brass and stamped into the form shown above. Measures about 8 inches in diameter. The "Ring" throws a fine mist, covers a large circle and can be conveniently moved about without shutting off the water. Works best where the pressure is high and is so strongly crimped together that it cannot be forced apart even under the heaviest pressure. Weight, 1 lb. Price, \$1.00.



Fig. 301

## BABY RING SPRINKLER

This sprinkler is stamped from sheet brass with brass bottom or galvanized steel bottom, as desired. It is joined together in a press, so that it is strong enough to stand heavy pressure.

In operation it throws a finely divided spray of water covering as large a circle as any of the similar low-down sprinklers, either of the ring type or the cast-iron variety. The spray is well distributed, covering the ground thoroughly; it cannot rust, is not easily broken and does not get out of order. Price, 75 cts. Weight 10 ozs.

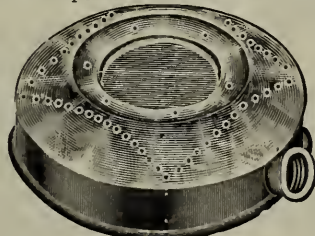


Fig. 299

## EXCELSIOR WIRE MESH TREE GUARDS

Orchardists often sustain heavy loss through the gnawing or girdling of their trees by rabbits, mice, woodchucks and similar rodents. These animals injure not only the young trees, but often those which have received years of care.

Excelsior Wire Mesh Guards will prevent this loss. They keep out all animals, allow the sun and wind free access to the bark and harbor no vermin. They cost but a few cents each, and on account of their rustproof finish will last for years. They are the most practical guard ever devised for this purpose.

In lots of 100: 4 in. dia. 14 in. high \$12.50; 6 in. dia. 14 in. high \$18.50.

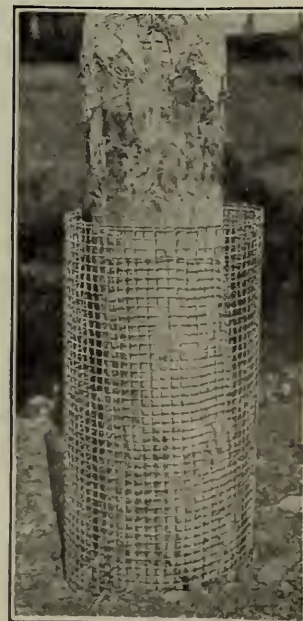


Fig. 302





# Insecticides For All Purposes

**RED WING ANT-DESTROYER.** Guaranteed to drive ants from any lawn. Put up in powder form and used by scattering on the ant-hills. The ants never come back. 10 cts. and 25 cts.

**DRY ARSENATE OF LEAD.** We carry Arsenate of Lead both paste and dry. The trade seems to demand that in the dry state as it has so many advantages over the paste. The dry will keep forever, is less bulky, does not freeze and spoil, and the calcium arsenate which we handle will not burn no matter how strong the solution. Send for descriptive catalogue which gives valuable information for every tree grower. 1/2-lb. cans 33 cts., 1-lb. cans 55 cts., 5-lb. cans \$2.40, 10-lb. cans \$4.50.

**ARSENATE OF LEAD.** The best insecticide known for leaf-eating insects because it kills quickly. Trees or plants sprayed with arsenate of lead and water are quickly freed from their insect pests. It can not injure the most delicate foliage. Respraying after rains is the bane of the fruit-grower's life. Arsenate of lead dries on the leaves to a varnish-like film, which is not affected by dew or rain. One thorough spraying will protect the foliage for an entire season. 1-lb. glass jars 40 cts., 5-lb. pails \$1.75, 10-lb. pails \$3.00, 50-lb. wooden pails \$11.00, 100-lb. kegs at \$20.00.



Pat. in Canada Nov. 2, 1897. Pat. Mar. 16 and Nov. 9, 1906.

**BUG DEATH.** We can say to our customers that we give Bug Death our fullest endorsement. While the first cost to kill the bugs on an acre of potatoes is rather more than that of arsenical insecticides, the results at harvesting time are entirely satisfactory, and where practical tests have been made, the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines. 1-lb. package 20 cts., 3-lb. package 45 cts., 5-lb. package 75 cts., 12 1/2-lb. package \$1.50, 100-lb. package \$9.50.

**DRY BORDEAUX POWDER.** For preventing blight on grapes, potatoes and other crops that are subject to rust, mildew and black rot; applied dry with bellows. Lb. 35 cts., 5 lbs. \$1.50.

**DRY BORDEAUX MIXTURE AND PARIS GREEN.** It kills potato bugs and all plant-eating pests, prevents blight and rust, keeps potato and tomato vines and other foliage in a green and vigorous condition. In one box. Lb. 50 cts.

**BORDEAUX MIXTURE.** (Liquid.) This mixture is put in one-gallon patent cans. One-gallon will make 50 gallons by the addition of 49 gallons of water. Gallon cans \$2.00. Weight, 9 lbs.

**CARBOLINEUM.** Of the numerous preservative compounds on the market Avenarius Carbolineum stands alone as time-tried and thoroughly tested. It is the only superficial preservative method that has been used the world over and demonstrated its value in the thirty years past. It is the only one that has received recognition and met with the approbation of engineers of Europe and America—the only preparation favorably reported along with the reliable but expensive and inconvenient Creosoting and Burnetizing process. Gallon can, \$1.75. Weight, 11 lbs.

## CARBONOL

**CARBONOL.** Used as a general disinfectant in the hen-house. Diluted 1 to 100 (about 2 tablespoons to a gallon of water), will keep it clean and healthful.

It is superior as a remedy for chicken cholera, gapes, roup, canker, etc. Will kill lice and destroy any disease germs before they have a chance to infect the flock.

The strong odor so often noticed in the stable can be prevented by spraying the floors and walls with a solution of CARBONOL (4 tablespoons to a pail of water).

Galls, sores and wounds are quickly healed when washed frequently with a solution of CARBONOL.

4-oz. bottles 25 cts., 16-oz. bottles 50 cts., 1 gal. \$1.75. Weight, 11 lbs. Sample will be mailed free on receipt.

**CREOSOTE FOR GYPSY MOTHS.** For the destruction of the eggs of gypsy moth. Qt. 50 cts., shipping weight, 3 lbs.; gal. \$1.00, weight, 9 lbs.

**CUTWORM FOOD.** Rid your garden and farm of the Cutworm pest. There was a time when Cutworms were not considered very seriously by farmers and market-gardeners, but in late years it seems they have come to stay. Cutworm Food can not harm plants and is safe and easy for the operator. Put up in one-, five- and ten-pound packages. Direction for using on every package. 1 lb. 40 cts. Shipping weight, 2 lbs.

**PRATTS DISINFECTANT.** Is the greatest disinfectant, deodorizer, detergent (cleaner), insecticide, bactericide and antiseptic, and is needed by house-keepers, cleaners, janitors, hotel proprietors, doctors, nurses, gardeners, laundrymen, poultrymen, horsemen, sheep-raisers, and by everyone seeking health, comfort and cleanliness. Price, 1 qt. 70 cts., 2 qts. \$1.25, 1 gal. \$2.00.

**HELLEBORE.** Sure death to the currant worm. Lb. 50 cts., 1/2 lb. 30 cts., 1/4 lb. 20 cts.

**KEROSENE EMULSION.** Not injurious to foliage and a sure remedy for lice, scale insects and most soft-bodied insects. Very valuable for washing domestic pets. Kills by contact. Qt. 40 cts., gal. \$1.00.

**LEMON OIL.** One of the cheapest, safest and most effectual insecticides. Dilute with 40 to 50 parts water. An excellent wash for dogs, curing mange, killing insects. 1/2 pt. 25 cts., pt. 40 cts., qt. 75 cts., 1/2 gal. \$1.25, gal. \$2.00.

**SOLUBLE SULPHUR COMPOUND, IN POWDER FORM.** Make your orchard pay you real profit money by spraying with sulphur compound, dry form. All the old disagreeable features of spraying with liquid lime sulphur is done away with by using the new sulphur compound. It is not caustic, does not freeze, is good till used and is fully 25 per cent. cheaper to use than that in the liquid state. While the experiment stations do not favor using their testimonials over their signature, many of them endorse this dry soluble compound. Send for book of directions and testimonials from leading orchardists. Put up as follows: 1-lb. cans 35 cts., 5-lb. cans \$1.60, 10-lb. cans \$2.30, 25 lb.-cans \$4.75, 100-lb. cans \$15.00.

**CONCENTRATED LIME SULPHUR.** Kills San Jose Scale, Oyster Shell, bark lice, etc., and gives the tree a thorough "house-cleaning." It should be applied any time after the leaves drop in Autumn and before the buds start in the spring. Needs only to be diluted with cold water and it is ready to apply. 1 gallon makes 10 gallons of spray. Guaranteed under the National Insecticide Act. 1 qt. 50 cts., weight 3 lbs.; 1 gal. \$1.00, weight 12 lbs.; 5 gals. \$3.00, 10 gals. \$4.50, 50 gals. \$12.00.

**PARIS GREEN.** A poisonous, insoluble powder for preventing the ravages of potato-bugs, codling moth, caterpillars, slugs and bugs. Mix one pound to 100 pounds of plaster, or 200 gallons of water. May be used clear with the Leggett Gun. Lb. 60 cts., 5 lbs. \$2.00.

BOWKER'S

## Pyrox

PYROX KILLS AND CURES



Pyrox kills all leaf-eating insects and prevents disease.

It serves the purposes for which two mixtures were previously used. It is no experiment; it was introduced in 1898. It is a ceramy paste that looks like paint, is easily mixed with cold water, and sticks like paint to the foliage. It won't wash off.

Bowker's Pyrox is a combination of arsenate of lead and Bordeaux. It is a mixture with reliability and brains behind it; a mixture with laboratory and field experience to support it; a mixture made by careful methods in a modern plant under expert supervision. Such a combination costs more to make and is worth more to buy because of the insurance the name affords against haphazard preparations.

It won't wash off. If it were not for the new growth coming along, as is usually the case with shade trees, fruit trees, shrubs, potato vines, etc., and which, of course, must be protected, one spraying would be enough for the season.

1 lb. (not mailable) 45 cts., 5 lbs. \$1.85, 10 lbs. \$3.25, 25 lbs. \$6.75, 50 lbs. \$11.75, 100 lbs. \$21.00, 300 lbs. \$60.00. Always select a clear day for spraying your fruit.

**ROSE BUG DESTROYER.** It is highly concentrated and is diluted with water according to the purpose. Full directions for use with each package.

**SCALECIDE.** A petroleum oil that mixes at once with cold water in any proportion and stays mixed. It is not necessary to use an extra tank or barrel and no hot water should be used. Can be prepared in an instant, adding one gallon of Scalecide for every fifteen or twenty gallons of water. Qt. can 75 cts., weight 3 lbs.; gal. can \$1.75, weight 9 lbs.; 5-gal. can \$6.00, 10-gal. can \$11.00, half bbl. (30 gal. tin) \$29.00, bbl. (50 gals.) \$45.00.

**SLUG-SHOT.** A fine powder used for potato bugs and other insects. Recommended for cabbage worms. 5-lb. package 50 cts.

**SOAP, SULPHO-TOBACCO.** 3-oz. pkg. 10 cts., mailed postpaid 13 cts. per doz \$1, 1/2 lb. pkg. 20 cts., mailed postpaid 28 cts., per doz. \$2.00.

**WHALE OIL SOAP.** For destroying insects on plants, etc., in small boxes. Lb. 25 cts., 5 lbs. \$1.00.



# EVERYBODY KNOWS ROSS' SEED GROWS

## A. B. C. Plant Protector

This illustration shows the A. B. C. Tarred Felt Pad used to protect Cabbage, Tomato and other plants from cutworms, maggots and insects that will destroy plants. Easy to apply. They lie on the top of the ground and can be used either for outdoor or greenhouse use. Excellent for protecting carnations from cutworms. Especially adapted for Cabbage and Tomatoes outside. They will save practically the entire crop of cabbage if used at the time plants are set. The cutworms and other insects do not like the smell. Only the best tarred felt is used and great care is taken to accurately cut the pads so no defects will allow the fly to deposit the egg which does the damage. Packed 1000 in good strong fibre box.

Price: 1000.....\$1.50  
10,000 lots ..... 2.40 per 1000  
25,000 lots ..... 2.25 per 1000

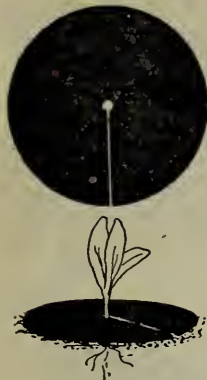


Fig. 303

## PRUNING KNIFE COCOA HANDLE



Fig. 304

9215 4 inches long. Price, \$1.25.

## EASY OPENER KNIFE

The handiest knife that a farmer can have. You open it whether your fingers are cold or not. American made, warranted.

Price postpaid \$1.25.

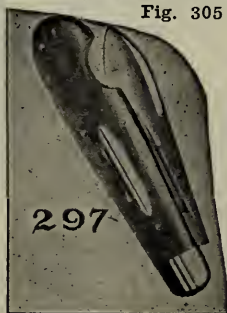


Fig. 305

Fig. 306

## BUDDING KNIFE

4 1/4 inches long. Price, \$1.00. Bone. 1 Blade.



Fig. 307

## TREE TANGLEFOOT

A perfect safeguard for trees against gypsy, brown-tail and tussock moth, canker worm, ants, and all creeping things. It will remain sticky about three months, fully exposed to the weather. 1-lb. cans 50 cts., 5-lb. can \$2.25, 10-lb. can \$4.50, 20-lb. can \$8.75, 25-lb. can \$10.50. COAL TAR. In quart tin boxes. For tarring corn to prevent crows from pulling it. Pt. 15 cts., qt. 25 cts. Shipping weight, 2 lbs. and 4 lbs.

PINE TAR. Used in the stable for cuts and bruises. Pt. cans 20 cts. TOBACCO STEMS. Indispensable for fumigating greenhouses and conservatories; for destroying aphids; should be dampened before using, and use a small handful on some dry shaving, and light it. 100 lbs. \$3.50.

TOBACCO DUST. Kills Green and black-fly, etc., if dusted on when the plants are moist. Also good to mix in the soil to destroy ground insects. 5 lbs. 35 cts., 50 lbs. \$1.50, 100 lbs. \$2.75.

FUMIGATING TOBACCO. Pure tobacco ground very fine Prepared especially for fumigating. 100 lbs. \$4.50.

GRAFTING WAX. Price, 1/4 lb. 12 cts., 1/2 lb. 20 cts., 1 lb. 35 cts. STICKY TREE CORD. For banding trees, etc., to prevent ascent of caterpillars, gypsy and brown-tail moths and other injurious insects.



## "ELECTRIC" WORM ERADICATOR

Clears roots of trees, plants, flowers, vegetables, etc., of worms, grubs and insects of every kind.

This preparation is designed for use on the roots of plants only, not the foliage. Used as directed by us, it is perfectly harmless to the most delicate roots.

From one to two ounces to each gallon of water brings worms, grubs, etc., to the surface of the ground within a few seconds, where they die.

Much damage is often done to plants and the true reason never known, for the destructive work is being done at the roots, where it is not perceptible. An application of "Electric" Worm Eradicator will greatly improve such plant, it being a fertilizer as well as a worm-killer.

24 oz. \$1.00, 1 gallon \$4.00, 5 gallon \$17.50, 10 gallon \$34.00.

## BLACK LEAF 40

(Nikoteen Sulphate, Nikoteen 40 per cent.)

BLACK LEAF 40 is the best known remedy for Potato Lice and other similar insects. Is perfectly soluble in cold water. Can be used in combination with lime, sulphur, arsenate of lead, Bordeaux mixture. Is used as safe and effective for plant lice, thrips, leaf hoppers, etc. Highly recommended by State and Government Experts. Use about 1 to 1000, or 1 oz. will make six gallon so solution 1 oz. 25 cts., 1/2 lb. \$1.00, 2 lbs. \$3.25, 10 lbs. \$13.75

## "HERBICIDE"—THE WEED EXTERMINATOR

Kills grass and weeds of every kind on roadways, gutters, tennis courts, etc., by one application.

Keeping roads and gutters free from weeds is an endless task when ordinary means are employed, for it is practically impossible to get the roots out, so it is only a matter of a few weeks before new tops are flourishing and it is necessary to go over the ground again.

One application of "Herbicide" when diluted with forty times its bulk of water kills both tops and roots of grass and weeds of every kind, and also prevents the growth of further crops by its sterile effect on the ground.

Its use will save much labor and expense in the long run.

2 qt. cans \$1.00, 1 gal. cans \$1.75, 2 gal. cans \$3.25, 5 gal. cans \$7.00, 10 gal. cans \$12.50, 25 gal. cask \$27.50, 50 gal. barrel \$47.50.

Full directions accompany each package.

## "READEANA" ROSE BUG EXTERMINATOR

A most effective insect killer that is absolutely harmless to even the most delicate flowers or foliage.

As a killer of insects of every kind, from the hardy Rose Bug to the destructive Caterpillar, there is nothing on the market to equal it.

It is very economical to use as it is sent out highly concentrated and may be diluted with from twenty to sixty parts of water.

It is not a chemical, but is made up of vegetable matter, making it harmless to flowers or foliage. It will put new life into flowers and plants, as it has a brightening effect on the same.

Put up in the following size packages:

8 oz. 50 cts., 1 qt. \$1.35, 1 gal. \$4.00, 5 gal \$17.50, 10 gal. \$34 00

Full directions accompany each package.

## "Nico-Fume" Liquid

(Nicotine Solution)

Has the Advantage of being Suitable BOTH for Spraying and for Fumigating Purposes.

For fumigating, the usual methods of vaporizing the Liquid are by means of lamps or hot irons, or by painting or pouring the Liquid on the heating pipes—the Liquid being easily poured on the pipes by means of an oil-can with a long spout, such as used on locomotives. By soldering a wire hook on the end of the spout the spout will not slip off the steam pipe, thus preventing waste of liquid.

"Nico-Fume" Liquid is packed in screw-top cans, and is sold in the following sizes:

Can containing 8 lbs., price \$14.50 Can containing 1 lb., price \$2.00  
Can containing 4 lbs., price 7.50 Can containing 1/4 lb., price .65





## Power Lawn Mowers

A well kept lawn adds as much to the beauty and happiness of a home as the indoor decorations do. No amount of money spent in piling up bricks, stone or marble will satisfy the owner unless the outdoor surroundings are in keeping with the interior, but after a lawn has been made and seeded, it is very necessary to keep it in good condition. To do this, it must be mowed often and also rolled, for no matter how much pains you have taken in grading and seeding, the action of the frost in freezing and thawing will ruin the best lawn that was ever made, if it is not rolled early in the spring before the grass is tall enough for cutting. This is just where the Ideal Power Lawn Mower comes in and fills a long-felt want, as it is a lawn roller as well as a lawn mower.

The Ideal Power Lawn Mower fills a long-felt want, for it works on an entirely different principal from most power lawn mowers. The cutting cylinder operates entirely independent of the truck as the mower is pushed the same as any hand mower and is as near as fool proof as any machine can be. Other methods of operating have proven themselves a failure. Experience has taught us that the obstructions which the mower will pick up on the lawn break under the old method where the cutting reel is driven direct. This cannot occur with the Ideal operated, as it is without any chain or gear connection with the mower.

### SPECIFICATIONS

Width cut.....30 in.	Width roller.....24 in.
Speed per hour.....2¾ miles	Will cut, allowing 2 in. lap,
Diameter roller.....14 in.	¾ acres per hour
Diameter cutting reel.....16 in.	Diameter mower wheels.....11 in.
Actual weight.....610 lbs.	Number of cutting blades.....5
Shipping weight.....800 lbs.	

Price \$385.00, extra cutting reel \$60.00, reducing attachment \$30.00.

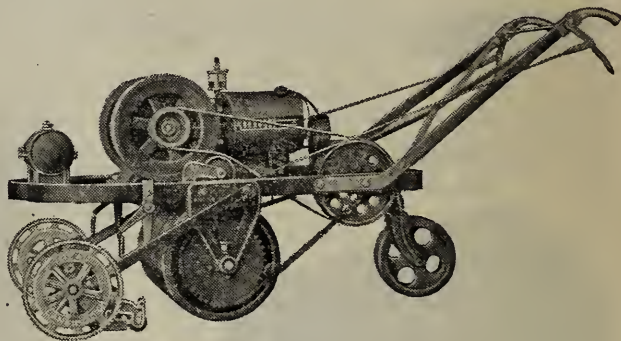


Fig. 308  
Ideal Power Lawn Mower

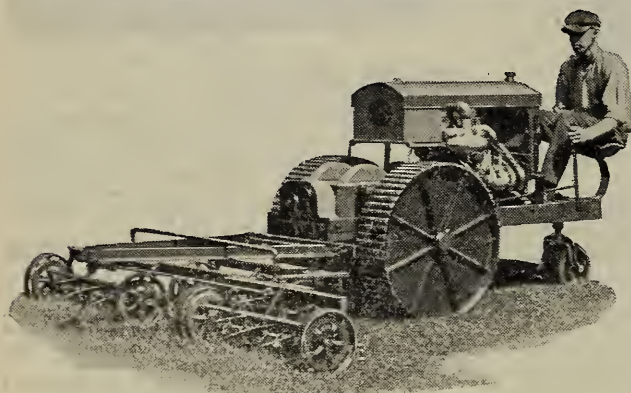


Fig. 309

### THE IDEAL TRACTOR TRIPLEX MOWER

For maintaining Golf Courses and to get all the full enjoyment out of the game, a carefully kept fairway is very necessary. This mower is especially adapted for cutting large areas of land. It can be operated by almost anyone. It is so simple that anyone can see at a glance how it is operated. It is absolutely under the control of the operator all the time, so he can instantly stop, back or turn around within its own radius. The entire control is placed in the two levers, one on each side of the operator. No shifting of gears, no complicated mechanism.

Tractor can be detached from mower and used for hauling light trailer for moving goods either outside or in large mills and factories.

Traction is secured by the corrugated steel wheel designed to give a grip on a smooth lawn without injury to the grass. It will mow up and over steep inclines and over irregular ground. Each cutting unit operates independent of the other. It cuts a path 84 inches wide. Is fitted with 4 cylinder, 15 H. P. engine and will run at a speed of 5 to 7 miles per hour.

Price, \$1100.00.

### THE TOWNSEND TRIPLEX GOLF MOWER

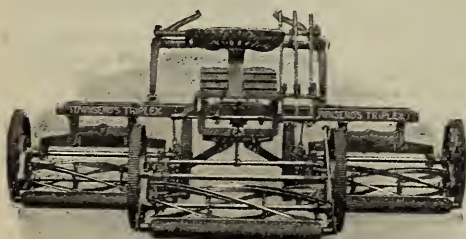


Fig. 310

Here is a mower much lighter than the ordinary horse lawn-mower, but which cuts three times as wide a swath. One man and one horse, with a Triplex, will cut more grass in a day, than three men and three horses with three ordinary lawn-mowers, thus saving the wages of two men, the cost of two horses and the cost of their care and keep. Price, \$400.00. Extra unit, \$110.00.

### THE IDEAL JUNIOR POWER MOWER

This little power mower is built to meet the needs of those who have lawns that are too large to conveniently care for by hand, yet are hardly large enough to warrant the purchase of the larger power mower.

In general design the Junior Mower is the same as the larger Ideal. Every feature that has made the larger machine such a universal success will be found in this smaller mower.

The cutting unit is 22 inches wide. The Ideal Junior will nicely care for 2 or 3 acres of grass and will prove a paying investment in caring for lawns as small as 150 to 200 feet square. It is a machine especially well adapted to the work in cemeteries.

Price \$265.00, with cutter \$35.00.

#### JUNIOR SPECIFICATIONS

Dia. of Drive Roller.....10 in.
Total Width of Drive Rollers.....17 in.
Corrugated Rollers.....
Speed of Machine.....3 M. P. H.
Width of Cut.....22 in.
Dia. of Drive Wheel.....10½ in.
Width of Drive Wheel.....1½ in.
Dia. of Reel.....6 in.
Number of Blades.....5
Net Weight.....325 lbs.

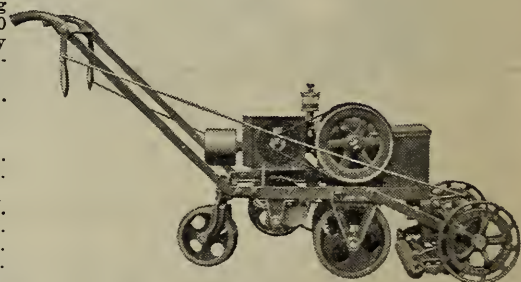


Fig. 311



# EVERYBODY KNOWS ROSS' SEED GROWS

## Hand Lawn Mowers

THE KNOLLWOOD JR. BALL BEARING HIGH-WHEEL SPADE-HANDLE  
LAWN MOWER

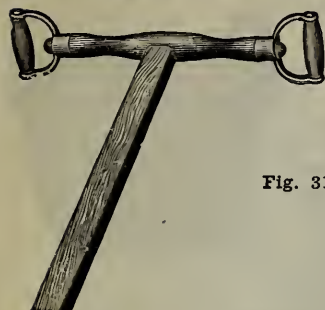
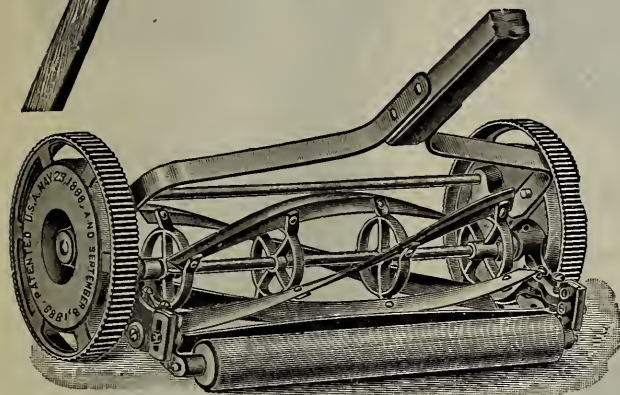


Fig. 312



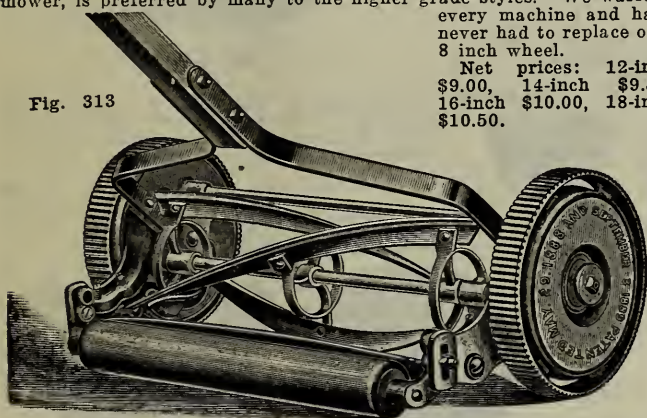
### The Little Giant Lawn Mower

For the benefit of those who want a low-priced mower or those who have but a small amount of grass to cut, we offer this machine, and we think we are safe when we state that it is good as one-half of the mowers sold as a high-grade machine, and being a light-running mower, is preferred by many to the higher grade styles. We warrant

every machine and have never had to replace one. 8 inch wheel.

Net prices: 12-inch \$9.00, 14-inch \$9.50, 16-inch \$10.00, 18-inch \$10.50.

Fig. 313



### Bieder Adjustable Grass Catcher

Gathers Grass without the use of a rake, and without time or labor. Made of best striped canvas on a galvanized frame. They are adjustable in height and width, to fit all sizes and makes of mowers.

No. 7 Fits all Low Wheel Mowers, 18 inches and smaller. Price, \$1.75. Weight 2 lbs.

No. 13. Fits all High Wheel Mowers, 24 inches and smaller. Net Price, \$2.60. Weight 2 lbs.

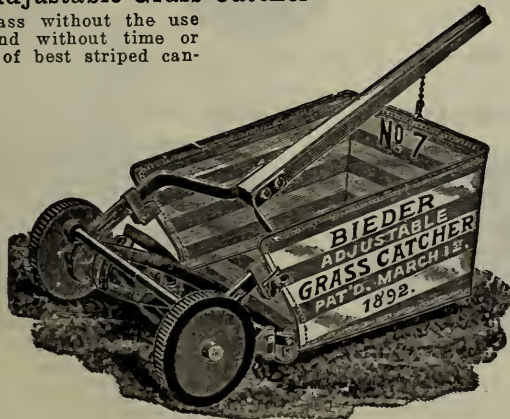


Fig. 314

We offer our customers this machine, not as an experiment, but as a guaranteed article, one that we have tested ourselves during the past 10 years, and know what we are talking about. This machine runs on ball-bearings (and all first-class machines ought to). The balls are of the very best quality and will last for years. They are enclosed in steel cups, which protect them from wear. The main axle is steel and lathe fitted and is adjusted as nice as any high priced piece of machinery. The end of the axle where it comes in contact with the balls is cone-shaped, and any possible wear can be easily taken up. The machine has a nine-inch wheel, four knives of the best quality of steel, and last, but not least a handle that is made to fit your hands. (See the spade handle in cut.) After giving you the best mower it is possible for us to get, we have put on it a handle we have all been looking for. With this Spade Handle the operator has perfect control over the machine and can handle it perfectly on a side hill or on narrow borders. We agree to take back any machine that is not satisfactory, after a fair trial. This machine is the best one on the market for private homes, it is especially adapted for parks, cemeteries, and large lawns.

14-inch \$14.50, 16-inch \$15.25, 18-inch \$16.00, 20-inch \$16.75.

### Rossmoyne Lawn Mower, Nine Inch Wheels

This machine has four knives, high wheels. It runs on ballbearings of the same quality as those used on other machines. It is a first-class, medium-price mower. All parts are fitted on a lathe, and we warrant every machine we sell. For a medium price machine, you will make no mistake in buying this one.

14-in. \$13.00, 16-in. \$13.75, 18-in. \$14.50, 20-in. \$15.25.



Fig. 315

### The Capitol Lawn Trimmer

The CAPITOL Lawn Trimmer and edger does what lawn-mowers leave undone. It trims and edges your lawn with remarkable speed and perfection; the Shield over the blades protects the flowers. A trial will convince you, as it has thousands of others, that the day of shears, clippers, etc., is past. Four crucible steel blades, six inches in length, tempered in oil, swivel bushings, double adjustment. Price, Plain \$9.00, Complete with edger \$11.00.

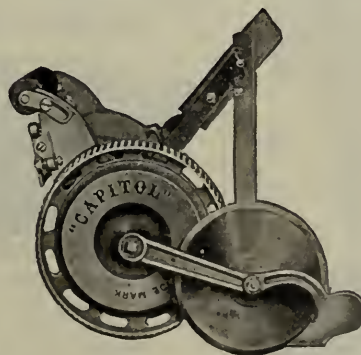


Fig. 316



### OXFORD OAK BASKET



Fig. 317

1 Bushel, as above.....\$1.25  
 ½ Bushel, drop handle..... 1.00  
 ¼ Bushel, drop handle..... .75  
 These baskets are woven very close, will almost hold water. A very serviceable basket and the ½ bushel is the best basket for picking peaches, as it does not bruise the fruit.

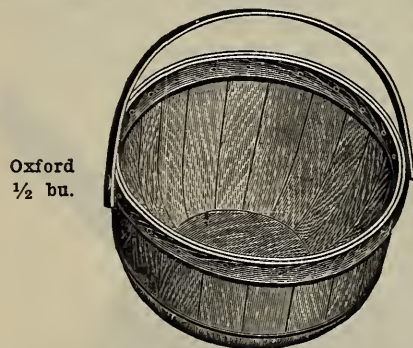


Fig. 318

### COVERED LUNCH BASKETS

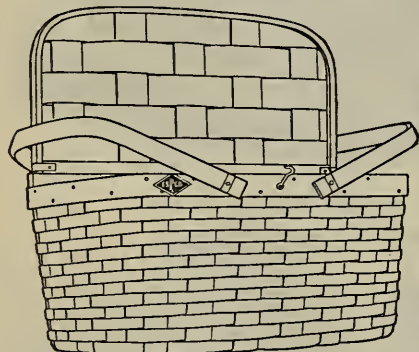


Fig. 319

1	9x 6x5.....	\$0.75
2	10x 7x6.....	.85
3	12x 8x6.....	.95
4	14x 8x6.....	1.05
5	16x 9x7.....	1.35
6	18x10x8.....	1.65

### VERBENIA AND PANSY BASKET

With Wire Handle.  
 Used largely for pansies. 100 \$2.25, 1,000 \$20.00.

Special prices in 25M lots.

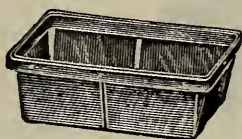


Fig. 320

### COMMON STAVE BUSHEL



Fig. 321

### Common Stave Bushel Basket

Each .....	25 cts.
Dozen .....	\$2.50

### DIAMOND MARKET BASKET



Fig. 322

A cheap all round basket; good for everything; indispensable in every household. 18 cts. each, \$1.50 per dozen.

### BERRY BASKETS

All white, \$12.00 per 1,000; 10,000 lots, 25 cents less per 1,000. Close corner (for blueberries) \$12.50 per 1,000, oval pints \$11.75 per 1,000.



Fig. 323



### WOVEN PICKING BASKET

¼ bu. drop basket, each \$1.35.

Fig. 324

### FOUR-QUART PONEY BASKET



Fig. 328

4-qt., with wooden bottom, 100, \$7.50; 1,000, \$70.00. (For Retail and Roadside Trade.)

### WET WASH CLOTHES BASKET

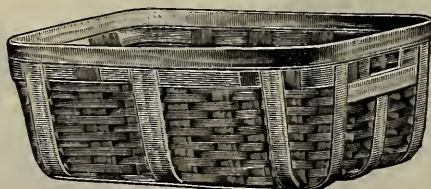


Fig. 325

No.	Dimensions	Price
2	25 x 16 x 10.....	\$1.95
3	27 x 18 x 10.....	2.15
4	30 x 20 x 11.....	2.40
5	32 x 22 x 12.....	3.00

### ROUND CLOTHES BASKET

Each 90 cts.  
 118

### STRAPPED BUSHEL BASKET

Size	Price
4 bu..	\$4.25
3 bu..	3.50
2 bu..	2.50
1½ bu..	2.00
1 bu..	1.50



Fig. 326

### PEACH BASKET



Fig. 327

Each stave on the basket is secured to the hoops by 6 double pointed staples, which makes the basket much more rigid. Price on application.

14 qt. 100.....	\$ 8.00
1,000.....	75.00

### BAMBOO GROCERS' DELIVERY Fig. 329



(With Block.)

No.	Size	Dimensions	Price
1	1 pk.	18x11x6.....	\$1.10
2	½ bu.	20x12x6½.....	1.15
3	¾ bu.	22x14x7.....	1.30
4	1 bu.	24x14x9.....	1.65
5	1½ bu.	25x16x10.....	1.80

### OAK MARKET BASKETS

(With Wood Handle.)

Same dimensions and prices as above.





# EVERYBODY KNOWS ROSS' SEED GROWS



## WORCESTER SENIOR CIDER MILL

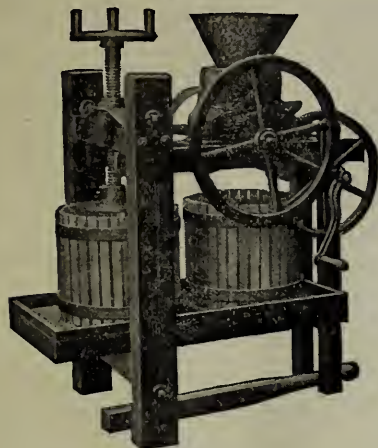


Fig. 330

The most up-to-date and best mill on the market.

Meets the demand where large capacity is wanted. Powerfully built with heavy hardwood frame strongly bolted together, best grade of iron and steel in working parts. Furnished with two tubs 14 in. high x 17 in. diameter, fitted with two cranks. We can furnish at an extra price a 12x3 pulley to run by power.

Capacity 6 to 12 bbls. of cider per day.  
Weight 440 lbs.

Price \$54.00.

Add for Pulley \$2.50.

## WORCESTER SPECIAL CIDER MILL



Fig. 332

A first class single tub cider mill and wine press.

Frame is hardwood, working parts best grade of iron and steel with 1½" steel press screw.

Fitted with large balance wheel, making it run easy. Size of tub 10½ in. high by 11 in. diameter.

Capacity 1 to 2 bbls. of cider per day.  
Weight, 125 lbs.

Price, \$22.50.

## WORCESTER JUNIOR CIDER MILL



Fig. 333

Our Junior is strong and well made. A strictly high grade mill that gives satisfaction. Its construction embodies the principles used in our large Senior mill, frame heavy hardwood, strongly bolted together, working parts best grade of iron and steel. Furnished with two tubs 10½ in. high by 11 in. diameter.

Capacity 2 to 4 bbls. of cider per day.  
Weight, 190 lbs.

Price, \$30.00.

## LIST OF STANDARD POTS, PANS AND SAUCERS

Inside measurement, width and depth equal.

### POTS

	Ea.	Doz.	100
3 in.....	\$.05	\$.35	\$2.50
4 in.....	.07	.55	4.00
5 in.....	.10	.95	7.00
6 in.....	.12	1.25	10.00
7 in.....	.20	2.25	17.50
8 in.....	.30	3.25	25.00
9 in.....	.40	4.25	
10 in.....	.60	6.25	
11 in.....	1.00		
12 in.....	1.25		
13 in.....	1.35		
14 in.....	1.75		
15 in.....	2.75		
16 in.....	3.90		

### SAUCERS

	Ea.	Doz.	100
3 in.....	\$.05	\$.30	\$2.35
4 in.....	.05	.35	2.95
5 in.....	.05	.50	3.90
6 in.....	.07	.70	5.85
7 in.....	.10	.95	7.80
8 in.....	.12	1.25	10.72
9 in.....	.18	1.80	
10 in.....	.20	2.25	
11 in.....	.25		
12 in.....	.28		
13 in.....	.35		
14 in.....	.45		
15 in.....	.55		
16 in.....	.75		

### BOTH

	Ea.	Doz.	100
3 in.....	\$.08	\$.60	\$4.35
4 in.....	.10	.80	6.25
5 in.....	.13	1.25	9.85
6 in.....	.17	1.75	14.00
7 in.....	.25	2.75	22.00
8 in.....	.37	4.00	32.00
9 in.....	.52	5.50	
10 in.....	.75	7.50	
11 in.....	1.15		
12 in.....	1.35		
13 in.....	1.55		
14 in.....	2.00		
15 in.....	2.85		
16 in.....	4.20		



Fig. 334

### BULB PANS

	Ea.	Doz.	100
6 inch.....	\$.15	\$1.50	\$10.50
7 inch.....	.25	2.25	17.50
8 inch.....	.35	3.50	25.00
9 inch.....	.50	5.00	39.00
10 inch.....	.60	6.00	52.00
12 inch.....	1.00		
14 inch.....	1.75		



Fig. 331

## NEPONSET WATERPROOF PAPER FLOWER POTS

These pots are nested and packed in cases of 1000 each, except 4, 5 and 6 inch sizes, which are put up in cases of 500 each.

	100	1000		100	1000
2¼ inch pots.....	\$0.65	\$ 4.55	4 inch pots.....	1.50	12.40
2½ inch pots.....	.75	5.25	5 inch pots.....	2.25	19.35
3 inch pots.....	.90	7.25	6 inch pots.....	2.75	25.90
3½ inch pots.....	1.15	9.90			

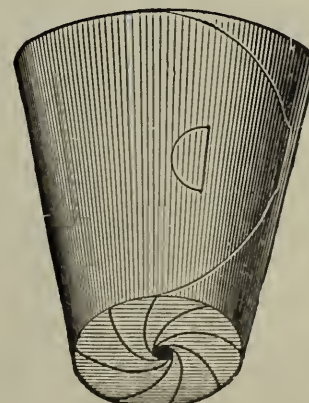


Fig. 335



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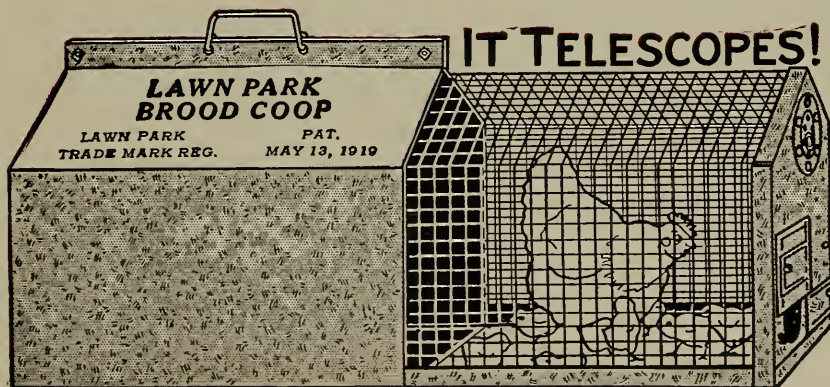
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Address } is } No. } Street

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Mass.

State

Sent by (Name of Sender)

Address }  
of }  
sender } No. } Street

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is not one of them.

**GIVE THE CHICKS A CHANCE  
THEY ARE MONEY MAKERS**

USE THE

**LAWN PARK COOP**

The wire park pulls out like a bureau  
drawer and is made from heavy galvan-  
ized hardware cloth.

The main coop is made from strong  
28 gauge galvanized iron. Size of coop:  
Park extended, 18 inches wide, 19½ inches  
high and 48 inches long. When park is  
closed, coop is 24 inches long.

**It Gives The Chicks Sunshine, Fresh Air,  
Grass and Protection From All Enemies**

1. This is a **Parking Coop** made so as to tele-  
scope (see cut). It gives double the rang-  
ing space when park is fully extended.
2. The **"Lawn Park"** Coop gives the chicks  
the natural condition they need for healthy  
vigorous growth, namely, sunshine, fresh  
air and grass.
3. It **Absolutely Protects** from rats, cats, dogs,  
hawks and all other enemies. Also pro-  
tects from dampness and vermin. It is  
sanitary and easily cleaned.
4. It **Gives Proper Ventilation**. In hot weather  
it is as cool as any place out doors. If  
weather is cold or stormy or too damp,  
simply push the park in and the brood  
and hen are securely sheltered.
5. It **serves as a Feeder** for each brood. This  
is the proper way to feed as they are all  
of one size and have an equal chance.
6. The **"Lawn Park"** Coop makes an ideal  
place for setting a hen. Here, with park  
extended, she may have small range and  
access to food and water and not be dis-  
turbed.
7. It **Makes an Excellent Place** to break up  
the broody hen.

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# Reference Tables

## GARDEN SEEDS

	Per Acre		Per Acre
Artichoke, 1 oz. to 500 plants	½ pound	Kohl Rabi, 1 oz. to 200 feet of drill	1 ½ pounds
Asparagus Seed, 1 oz. to 800 plants	4 "	Leek, 1 oz. to 200 feet of drill	4 "
Asparagus Roots	2500 to 7000	Lettuce, 1 oz. to 200 feet of drill	3 "
Beans, Dwarf, 1 pound to 100 ft. of drill	60 pounds	Melon, Musk, 1 oz. to 100 hills	2 ½ "
Beans, Pole, 1 pound to 100 hills	30 "	Melon, Water, 1 oz. to 25 hills	4 "
Beet, Garden, 1 oz. to 100 ft. of drill	6 to 8 "	Mustard, 1 oz. to 50 feet of drill	8 "
Beet, Sugar & Manels, 1 oz. to 100 ft. of drill	5 "	Okra, 1 oz. to 50 feet of drill	8 "
Broccoli, 1 oz. to 3000 plants	4 ozs.	Onion Seed, 1 oz. to 200 feet of drill	4 to 5 "
Brussels Sprouts, 1 oz. to 3000 plants	4 "	Onion Seed for sets	30 to 50 "
Cabbage, 1 oz. to 3000 plants	4 "	Onion Sets, 2 pounds to 50 feet of drill	250 "
Carrot, 1 oz. to 150 feet of drill	2 ½ pounds	Parsnip, 1 oz. to 200 feet of drill	4 "
Cauliflower, 1 oz. to 3000 plants	5 ozs.	Parsley, 1 oz. to 200 feet of drill	4 "
Celery, 1 oz. to 10,000 plants	4 "	Peas, Garden, 1 pound to 100 foot drill	100 "
Celeriac, 1 oz. to 10,000 plants	4 "	Pepper, 1 oz. to 1500 plants	4 ozs.
Chervil, 1 oz. to 8000 plants	4 pounds	Potatoes	600 to 700 pounds
Chicory	4 pounds	Pumpkin, 1 oz. to 50 hills	3 "
Collards, 1 oz. to 5000 plants	12 "	Radish, 1 oz. to 150 feet of drill	8 to 10 "
Corn, Sweet, ¼ pound to 100 hills	12 "	Sage, 1 oz. to 100 feet of drill	5 "
Cress, 1 oz. to 150 feet of drill	12 "	Salsify, 1 oz. to 60 foot row	8 "
Cucumber, 1 oz. to 50 hills	2 ½ "	Spinach, 1 oz. to 100 feet of drill	12 "
Dandelion, 1 oz. to 200 feet of drill	2 "	Squash, Summer, 1 oz. to 25 hills	4 "
Dill, 1 oz. to 200 feet of drill	5 "	Squash, Winter, 1 oz. to 10 hills	2 "
Egg Plant, 1 oz. to 2000 plants	4 ozs.	Tomato, 1 oz. to 2500 plants	3 ozs.
Endive, 1 oz. to 300 feet of drill	4 ½ pounds	Tobacco, 1 oz. to 5000 plants	1 ½ pounds
Kale, 1 oz. to 3000 plants	4 ozs.	Turnip, 1 oz. to 200 feet of drill	1 "
		Turnip, Ruta Baga, 1 oz. to 150 feet of drill	1 "

## GRAIN AND FORAGE CROPS

	lbs. per acre	weight per bu.		lbs. per acre	weight per bu.
Alfalfa	15-25	60	Oats for grain	50-60	32
Barley, for grain	100	48	Oats for forage	100	32
Barley for forage	140	48	Peas, Field, Broadcast	150-160	60
Beans, Soy or Soja	60-75	60	Peas with oats	90-100	60
Buckwheat	50-75	48	Rye for grain	60-75	56
Clover, Alsike	6-8	60	Rye for forage	80-100	56
Clover, Crimson	18-20	60	Rapè, Dwarf Essex, in drills	4-6	50
Clover, Mammoth Red	10-12	60	Rapè, Dwarf Essex, broadcast	8-10	50
Clover, Medium Red	10-12	60	Sudan Grass, in drills	4-6	40
Clover, White Sweet	20	60	Sudan Grass, broadcast	18-20	40
Corn, Flint for grain	15	56	Vetch, Spring, with one bushel small grain	40-60	60
Corn, Dent for silage	20-30	56	Vetch, Winter or Hairy, with one bushel small grain	40-60	60
Millet, Golden	50	50	Wheat	90-120	60
Millet, Hungarian	50	48			
Millet, Japanese	15-25	35			

## GRASS SEEDS

	lbs. per acre	weight per bu.		lbs. per acre	weight per bu.
Awnless Brome	18-25	14	Rye Grass, English	50	28
Blue Grass, Canada	30-35	14	Rye Grass, Italian	60	22
Blue Grass, Kentucky	20-25	14	Rye Grass, Pacey's	50	28
Creeping Bent	50	14	Red Top, Recleaned seed, Worcester Brand	40-50	36
Crested Dogstail	30	28	Red Top, Unhulled seed	70	14
Fescue, Hard	30	16	Rhode Island Bent	20-40	14
Fescue, Meadow	24	16	Rough Stalk Meadow	30-35	26
Fescue, Red or Creeping	30	16	Sweet Vernal, use only in mixture.		
Fescue, Sheep's	40	16	Tall Meadow Oat	45	12
Fescue, Various Leaved	20-25	15	Timothy	12-25	45
Meadow Foxtail	30	8	Lawn Seed Mixture, Shady Spot	100-125	20
Orchard Grass	20-25	14	Lawn Seed Mixture, Worcester Brand	100-125	25
			Wood Meadow	25-30	19

## NUMBER OF PLANTS, TREES, ETC., REQUIRED TO SET AN ACRE

Distance, foot by 1 foot	Number.	Distance, 6 feet by 6 feet	Number.
1 ½ " 1 ½ "	43 560	6 " 6 "	1,210
2 " 1 "	19,360	8 " 8 "	600
2 " 2 "	21,780	10 " 10 "	434
2 ½ " 2 ½ "	10,890	12 " 12 "	302
3 " 1 "	6,970	15 " 15 "	194
3 " 2 "	14,520	18 " 18 "	134
3 " 3 "	7,260	20 " 20 "	103
4 " 4 "	4,840	25 " 25 "	70
5 " 5 "	2,722	30 " 30 "	40
	1,742	40 " 40 "	27

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Alyssum, Little Dorrit.  
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Balsam, Choice Mixed.  
Batchelor's Button, Single and Double Mixed.  
Calendula, Choice Mixed.  
California Poppy.  
Calliopsis, Mixed Colors.

Candytuft, Mixed Colors.  
Cosmos, Early Flowering.  
Dianthus, Worcester Mixed.  
Four O'Clock, Mixed Colors.  
Marigold, African Double Mixed.  
Mignonette, Grandiflora.  
Nasturtium, Dwarf Worcester Mixed.  
Petunia, Finest Mixed.

Phlox Drummondii, Mixed.  
Poppy, Worcester Mixed.  
Portulaca, Single Mixed.  
Scabiosa, Mixed Colors.  
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